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United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *January 31, 1906.*

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS.

FROM FIELD OPERATIONS, BUREAU OF SOILS, 1904.

- Soil Survey of Sumter County, Alabama. By William G. Smith and F. N. Meeker. Pp. 30, fig. 1, map 1.
Soil Survey of the San Bernardino Valley, California. By J. Garnett Holmes, Herbert W. Marean, N. P. Neill, Aldert S. Root, A. T. Sweet, and W. E. McLendon. Pp. 41, fig. 1, map 1.
Soil Survey of Anderson County, Texas. By William T. Carter, jr., and A. E. Kocher. Pp. 28, fig. 1, map 1.

REPORT.

REPRINT.

- Report No. 81. Report of the Secretary of Agriculture. 1905. (Duplicated.)
Price 10 cents.

BULLETINS.

NEW.

- Records of Dairy Cows in the United States. By Clarence B. Lane, Assistant Chief of Dairy Division, Bureau of Animal Industry. Pp. 184, pls. 17, figs. 6. (Bulletin No. 75, Bureau of Animal Industry.) Price 15 cents.
Foods and Food Control. Revised to July 1, 1905. III. Laws of Kansas, Kentucky, Louisiana, Maine, Maryland, and Massachusetts. By W. D. Bigelow, Chief, Division of Foods. Pp. iv, 201-271. (Bulletin No. 69, revised, Part III, Bureau of Chemistry.) Price 5 cents.
Foods and Food Control. Revised to July 1, 1905. IV. Laws of Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, and New Hampshire. By W. D. Bigelow, Chief, Division of Foods. Pp. iv, 273-372. (Bulletin No. 69, revised, Part IV, Bureau of Chemistry.) Price 5 cents.
Foods and Food Control. Revised to July 1, 1905. V. Laws of New Jersey, New Mexico, New York, North Carolina, and North Dakota. By W. D. Bigelow, Chief, Division of Foods. Pp. iii, 373-457. (Bulletin No. 69, revised, Part V, Bureau of Chemistry.) Price 5 cents.
The Rearing of Queen Bees. Prepared under the direction of the Entomologist by E. F. Phillips, Expert Apiculturist. Pp. 32, figs. 17. (Bulletin No. 55, Bureau of Entomology.) Price 5 cents.
Organization Lists of the Agricultural Colleges and Experiment Stations in the United States, December, 1905. Pp. 95. (Bulletin No. 161, Office of Experiment Stations.) Price 5 cents.
Experiment Station Record, January, 1906. Vol. XVII, No. 5. Pp. viii, 417-520. (Office of Experiment Stations.) (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of

special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

- A Working Plan for Forest Lands in Berkeley County, South Carolina. By Charles S. Chapman, Forest Assistant, Bureau of Forestry. Pp. 62, pls. 4, map 1. (Bulletin No. 56, Bureau of Forestry.) Price 10 cents.
- Advice for Forest Planters in Oklahoma and Adjacent Regions. By George L. Clothier, Assistant Forest Inspector, Forest Service. Pp. 46, map 1, pls. 4, figs. 7. (Bulletin No. 65, Forest Service.) Price 5 cents.
- Citrus Fruits in Hawaii. By J. E. Higgins, Horticulturist, Hawaii Agricultural Experiment Station. Under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 31, pls. 3, figs. 7. (Bulletin No. 9, Hawaii Agricultural Experiment Station.) Price 5 cents.
- Weevil-Resisting Adaptations of the Cotton Plant. By O. F. Cook, Bionomist in Charge of Investigations in the Agricultural Economy of Tropical and Subtropical Plants. Pp. 87, pls. 10. (Bulletin No. 88, Bureau of Plant Industry.) Price 10 cents.
- Wild Medicinal Plants of the United States. By Alice Henkel, Assistant, Drug Plant Investigations. Pp. 76. (Bulletin No. 89, Bureau of Plant Industry.) Price 5 cents.
- The Poisonous Action of Johnson Grass. By Albert C. Crawford, Pharmacologist, Poisonous Plant Investigations. Pp. 6. (Bulletin No. 90, Part IV, Bureau of Plant Industry.) Price 5 cents.
- Meat in Foreign Markets, Tariffs of Fourteen Importing Nations, and Countries of Surplus. Prepared by the Division of Foreign Markets. Pp. 95. (Bulletin No. 39, Bureau of Statistics.) Price 5 cents.

REPRINTS.

- Bulletin No. 81, Bureau of Animal Industry. The Milk Supply of Boston, New York, and Philadelphia. Price 5 cents.
- Bulletin No. 25, Division of Botany. Shade in Coffee Culture. Price 15 cents.
- Bulletin No. 93, Bureau of Chemistry. Experiments in the Culture of Sugar Cane and its Manufacture into Table Sirup. Price 10 cents.
- Bulletin No. 160, Office of Experiment Stations. School Gardens. Price 10 cents.
- Bulletin No. 24, Part I, Division of Forestry. A Primer of Forestry. Part I—The Forest. Cloth, price 35 cents.
- Bulletin No. 75, Bureau of Plant Industry. Range Management in the State of Washington. Price 5 cents.
- Bulletin No. 30, Bureau of Soils. The Mineral Constituents of the Soil Solution. Price 5 cents.

CIRCULARS.

NEW.

- Danger of Infection with Tuberculosis by Different Kinds of Exposure. By E. C. Schroeder, Superintendent of Experiment Station, Bureau of Animal Industry, and W. E. Cotton, Expert Assistant at Experiment Station, Bureau of Animal Industry. Pp. 44-65. (Circular No. 83, Bureau of Animal Industry.)
- Enzymes in Cornstalks and their Relation to Cornstalk Disease. By T. M. Price, Biochemic Division, Bureau of Animal Industry. Pp. 66-75. (Circular No. 84, Bureau of Animal Industry.)
- The Tapeworms of American Chickens and Turkeys. By B. H. Ransom, Acting Zoologist, Bureau of Animal Industry. Pp. 268-285. (Circular No. 85, Bureau of Animal Industry.)
- Alfalfa for the Growing and Fattening of Animals in the Great Plains Region. By I. D. Graham, Topeka, Kans. Pp. 242-267. (Circular No. 86, Bureau of Animal Industry.)
- Highland Cattle. By John Roberts, Editorial Clerk, Bureau of Animal Industry. Pp. 227-241. (Circular No. 88, Bureau of Animal Industry.)
- Hunter-Horse Production in Ireland. By Willard John Kennedy, Professor of Animal Husbandry, Iowa State College of Agriculture and Mechanic Arts, and Vice-Director, Iowa Experiment Station, Ames, Iowa. Pp. 187-225, pls. 8. (Circular No. 87, Bureau of Animal Industry.)
- The Preparation of Emulsions of Crude Petroleum. By T. M. Price, Biochemic Division, Bureau of Animal Industry. Pp. 4. (Circular No. 89, Bureau of Animal Industry.)
- Organization of the Bureau of Chemistry. Pp. 18. (Circular No. 14, revised, Bureau of Chemistry.)
- Coloring Matters for Foodstuffs and Methods for their Detection. (A preliminary report made to the Association of Official Agricultural Chemists.) By W. G. Berry, Associate Referee on Colors. Pp. 40, fig. 1. (Circular No. 25, Bureau of Chemistry.)
- List of Station Publications Received by the Office of Experiment Stations during November and December, 1905. Pp. 6. (Doc. 858, Office of Experiment Stations.)
- The Forest Service: What it is and How it Deals with Forest Problems. Pp. 24, chart 1. (Circular No. 36, Forest Service.)
- Monthly List of Publications, December, 1905. Pp. 4. (Doc. 529, Division of Publications.)
- Crop Reporter, Vol. 7, No. 9, January, 1906. Published by the U. S. Department of Agriculture, under the supervision of the Assistant Secretary. Pp. 79-86.
- A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

- Circular No. 25, Bureau of Forestry. Forestry and the Lumber Supply.
 Circular No. 34, Bureau of Forestry. Practical Results of the Cup and Gutter System of Turpentine.
 Circular No. 35, Forest Service. Forest Preservation and National Prosperity.
 Crop Reporter, Vol. 7, No. 8, December, 1905.
 Crop Reporter, Vol. 7, No. 8, Supplement, December, 1905.

FARMERS' BULLETINS.

NEW.

Experiment Station Work—XXXII. Compiled from the publications of the agricultural experiment stations. Pp. 32, figs. 6. (Farmers' Bulletin No. 237.)

CONTENTS: Lime and clover—Plant-food requirements of fruit trees—Apple growing in New York—Running out of seed wheat—High-protein seed wheat—Tobacco seed selection—Cover crop for tobacco fields—Cereal breakfast foods—Damaged wheat as feed—Bedding for cows—Amateur poultry raising—Care of cream on the farm—Paying the patrons of creameries—Gassy fermentation of Swiss cheese—Yeast as a disinfectant.

Butter Making on the Farm. By Edwin H. Webster, Chief of Dairy Division, Bureau of Animal Industry. Pp. 32. (Farmers' Bulletin No. 241.)

Valuable and practical suggestions as to the care and handling of milk and milk utensils, with directions for making, storing, and marketing butter. Methods for testing the acidity of cream are also given.

An Example of Model Farming. By W. J. Spillman, Agriculturist, in Charge of Farm Management Investigations, Bureau of Plant Industry. Pp. 16, figs. 5. (Farmers' Bulletin No. 242.)

Methods and management on a 15-acre farm that raises all the roughage for 30 head of stock, 17 of which are cows in milk. The object of this bulletin is to show to the farmer the value of applied scientific principles and business methods.

REPRINTS.

- No. 25.—Peanuts: Culture and Uses. Pp. 24.
 No. 33.—Peach Growing for Market. Pp. 24.
 No. 44.—Commercial Fertilizers. Pp. 24.
 No. 52.—The Sugar Beet. Pp. 48.
 No. 55.—The Dairy Herd. Pp. 30.
 No. 58.—The Soy Bean as a Forage Crop. Pp. 24.
 No. 62.—Marketing Farm Produce. Pp. 32.
 No. 64.—Ducks and Geese. Pp. 48.
 No. 71.—Some Essentials in Beef Production. Pp. 24.
 No. 74.—Milk as Food. Pp. 40.
 No. 93.—Sugar as Food. Pp. 24.
 No. 94.—The Vegetable Garden. Pp. 24.
 No. 100.—Hog Raising in the South. Pp. 40.
 No. 102.—Southern Forage Plants. Pp. 48.
 No. 106.—Breeds of Dairy Cattle. Pp. 48.
 No. 121.—Beans, Peas, and Other Legumes as Food. Pp. 40.
 No. 127.—Important Insecticides, revised, August, 1903. Pp. 46.
 No. 131.—Household Tests for the Detection of Oleomargarine and Renovated Butter. Pp. 12.
 No. 132.—The Principal Insect Enemies of Growing Wheat. Pp. 40.
 No. 134.—Tree Planting on Rural School Grounds. Pp. 32.
 No. 135.—Sorghum Sirup Manufacture. Pp. 40.
 No. 141.—Poultry Raising on the Farm. Pp. 16.
 No. 151.—Dairying in the South. Pp. 48.
 No. 159.—Scab in Sheep. Pp. 46.
 No. 171.—The Control of the Codling Moth. Pp. 24.
 No. 185.—Beautifying the Home Grounds. Pp. 24.
 No. 202.—Experiment Station Work—XXVI. Pp. 32.
 No. 205.—Pig Management. Pp. 40.
 No. 213.—Raspberries. Pp. 38.
 No. 229.—The Production of Good Seed Corn. Pp. 24.

SEPARATES.

FROM YEARBOOK, DEPARTMENT OF AGRICULTURE, 1901.

Commercial Apple Orchardling. By G. B. Brackett, Pomologist, Bureau of Plant Industry. Pp. ii, 593-608, pls. 4. (Extract No. 230.)

FROM YEARBOOK, DEPARTMENT OF AGRICULTURE, 1902.

Practicability of Forest Planting in the United States. By William L. Hall, Chief of Division of Forest Extension, Bureau of Forestry. Pp. iii, 133-144, pls. 4. (Extract No. 270.)

FROM YEARBOOK, DEPARTMENT OF AGRICULTURE, 1903.

Some New Facts about the Migration of Birds. By Wells W. Cooke, Assistant, Biological Survey. Pp. iii, 371-386, figs. 2. (Extract No. 322.)

FROM ANNUAL REPORTS, DEPARTMENT OF AGRICULTURE.

- Report of the Chief of the Bureau of Animal Industry for 1905. By D. E. Salmon. Pp. iii, 29-62.
 Report of the Chief of the Bureau of Plant Industry for 1905. By B. T. Galloway. Pp. iii, 63-197.
 Report of the Forester for 1905. By Gifford Pinchot. Pp. iv, 199-237.
 Report of the Chief of the Bureau of Soils for 1905. By Milton Whitney. Pp. iii, 239-272.
 Report of the Entomologist for 1905. By L. O. Howard. Pp. ii, 273-302.
 Report of the Chief of the Division of Biological Survey for 1905. By C. Hart Merriam. Pp. ii, 303-315.

Report of the Chief of the Division of Accounts and Disbursements for 1905. By F. L. Evans. Pp. iii, 317-326.
 Report of the Editor for 1905. By Geo. Wm. Hill. Pp. ii, 327-404.
 Report of the Bureau of Statistics for 1905. By W. M. Hays, Assistant Secretary, in Charge. Pp. ii, 405-417.
 Report of the Librarian for 1905. By Josephine A. Clark. Pp. iii, 419-422.
 Report of the Director of the Office of Public Roads for 1905. By Logan Waller Page, Director. Pp. iii, 423-438.

FROM BULLETIN NO. 157, OFFICE OF EXPERIMENT STATIONS.

Water Rights on Interstate Streams: The Platte River and Tributaries. Results of Investigation. By R. P. Teele, Expert in Irrigation Institutions. Pp. iv, 95, pls. 4, figs. 3.
 Water Rights on Interstate Streams: The Platte River and Tributaries. Water Rights within the States. By Elwood Mead, Chief of Irrigation and Drainage Investigations. Pp. iii, 97-116.

FROM BULLETIN NO. 158, OFFICE OF EXPERIMENT STATIONS.

The Distribution and Use of Water in Modesto and Turlock Irrigation Districts, California. By Frank Adams, Irrigation Engineer. Relation of Irrigation to Yield, Size, Quality, and Commercial Suitability of Fruits. By E. J. Wickson, Professor of Agricultural Practice in the University of California and Horticulturist of the California Agricultural Experiment Station. Irrigation Conditions in Imperial Valley, California. By J. E. Roadhouse, Agent and Expert in California Investigations. Pp. iv, 93-194, pls. 4, figs. 5.
 Irrigation in Klamath County, Oregon. By F. L. Kent, Assistant Agriculturist, Oregon Agricultural College. Irrigation Investigations in the Yakima Valley, Washington, 1904. By O. L. Waller, Irrigation Engineer, Washington Agricultural Experiment Station. Irrigation Conditions in Raft River Water District, Idaho, 1904. By W. F. Bartlett, Agent and Expert. Pp. iii, 257-302, fig. 1.
 Irrigation Investigations at New Mexico Experiment Station, Mesilla Park, 1904. By J. J. Vernon, Professor of Agriculture, New Mexico Agricultural College. Irrigation Investigations in Western Texas. By Harvey Culbertson, Agent and Expert in Pumping Investigations. Pumping Plants in Texas. By C. E. Tait, Irrigation Engineer. Pp. iv, 393-346, figs. 8.
 Irrigation in Southern Texas. By Aug. J. Bowie, jr., Agent and Expert in Pumping Investigations. Pp. iv, 347-507, pls. 3, figs. 19.
 Rice Irrigation in Louisiana and Texas in 1903 and 1904. By W. B. Gregory, Professor of Mechanical Engineering, Tulane University. Rice Irrigation on the Prairie Land of Arkansas. By C. E. Tait, Irrigation Engineer. Pp. iv, 509-565, pl. 1, figs. 7.
 Irrigation Experiments at Fort Hays, Kansas, 1903 and 1904. By J. G. Haney. Irrigation near Garden City, Kansas, 1904. By E. A. Wright and A. B. Collins. Pumping Plants in Colorado, Nebraska, and Kansas. By O. V. P. Stout, Irrigation Engineer, University of Nebraska. Irrigation near Rockyford, Colorado, 1904. By A. E. Wright, Irrigation Engineer. The Irrigation and Drainage of Cranberry Marshes in Wisconsin. By A. R. Whitson, Professor of Agricultural Physics, Wisconsin Agricultural Experiment Station. Pp. iv, 567-642, figs. 3.
 Report of Drainage Investigations, 1904. By C. G. Elliott, Engineer in Charge of Drainage Investigations. Pp. vi, 643-743, pls. 4, figs. 52.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps not received.]

Monthly Weather Review. Vol. XXXIII, No. 8, August, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 349-384, fig. 1, charts 9. (W. B. No. 340.) Price 20 cents; \$2 per year.
 Monthly Weather Review. Vol. XXXIII, No. 9, September, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 385-431, figs. 6, charts 9. (W. B. No. 341.) Price 20 cents; \$2 per year.
 Monthly Weather Review. Vol. XXXIII, No. 10, October, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 433-470, fig. 1, charts 10. (W. B. No. 343.) Price 20 cents; \$2 per year.

Charts of the Weather Bureau—

Weather Crop Bulletin (series of 1905), reporting temperature and rainfall with reference to their effect on crops. (No. 32, for the month of December, 1905.)

Snow and Ice Bulletin for Tuesdays, January 2, 9, 16, 23, and 30, 1906. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATION NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Work, Vol. II, No. 12. Pp. iv, 309-336, figs. 6. (Office of Experiment Stations).

Approved:

JAMES WILSON,

Secretary of Agriculture.

GEO. WM. HILL,

Editor and Chief.

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This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *February 28, 1906.*

MONTHLY LIST OF PUBLICATIONS.

[FEBRUARY, 1906.]

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BULLETINS.

NEW.

Foods and Food Control. Revised to July 1, 1905. VI. Laws of Ohio, Oklahoma, Oregon, Pennsylvania, and the Philippine Islands. By W. D. Bigelow, Chief, Division of Foods. Pp. iii, 459-548. (Bulletin No. 69, revised, Part VI, Bureau of Chemistry.) Price 5 cents.

Foods and Food Control. Revised to July 1, 1905. VII. Laws of Porto Rico, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, and Vermont. By W. D. Bigelow, Chief, Division of Foods. Pp. iv, 549-637. (Bulletin No. 69, revised, Part VII, Bureau of Chemistry.) Price 5 cents.

Foods and Food Control. Revised to July 1, 1905. VIII. Laws of Virginia, Washington, West Virginia, Wisconsin, and Wyoming. By W. D. Bigelow, Chief, Division of Foods. Pp. iii, 639-704. (Bulletin No. 69, revised, Part VIII, Bureau of Chemistry.) Price 5 cents.

The Black Hills Beetle, with Further Notes on its Distribution, Life History, and Methods of Control. Prepared under the direction of the Entomologist by A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 24, pls. 2, figs. 6. (Bulletin No. 56, Bureau of Entomology.) Price 5 cents.

Report on Miscellaneous Cotton Insects in Texas. Prepared under the direction of the Entomologist by E. Dwight Sanderson, Special Agent, Bureau of Entomology, in cooperation with the Entomological Department, Agricultural and Mechanical College of Texas. Pp. 63, pl. 1, figs. 33. (Bulletin No. 57, Bureau of Entomology.) Price 5 cents.

Vegetable Growing in Alaska. By C. C. Georgeson, Special Agent in Charge of Alaska Experiment Stations. Pp. 46, frontispiece, pls. 4. (Bulletin No. 2, Alaska Agricultural Experiment Stations, under the supervision of Office of Experiment Stations, U. S. Department of Agriculture.) Price 5 cents.

Experiment Station Record, February, 1906. Vol. XVII, No. 6. E. W. Allen, Ph. D., Editor. Pp. viii, 521-624. (Office of Experiment Stations.) (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

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Studies on the Influence of Cooking upon the Nutritive Value of Meats; at the University of Illinois, 1903-1904. By H. S. Grindley, Professor of General Chemistry, College of Science, University of Illinois, and A. D. Emmett, Research Chemist, Nutrition Investigations, University of Illinois. Pp. 230. (Bulletin No. 162, Office of Experiment Stations.) Price 15 cents.

- The Natural Replacement of White Pine on Old Fields in New England. By S. N. Spring, Forest Assistant, Bureau of Forestry. Pp. 32, pls. 4, map. (Bulletin No. 63, Bureau of Forestry.) Price 10 cents.
- Accessions to the Department Library. October-December, 1905. Pp. 64. (Bulletin No. 58, Library.) Price 5 cents.
- Miscellaneous Papers. I. The Storage and Germination of Wild Rice Seed. By J. W. T. Duvel, Assistant. II. The Crown-gall and Hairy-root Diseases of the Apple Tree. By George G. Hedgcock, Assistant. III. Peppermint. By Alice Henkel, Assistant. IV. The Poisonous Action of Johnson Grass. By A. C. Crawford, Pharmacologist. Pp. 34, pls. 5, figs. 3. (Bulletin No. 90, Bureau of Plant Industry.) Price 5 cents.
- Varieties of Tobacco Seed Distributed in 1905-6, with Cultural Directions. By A. D. Shamel and W. W. Cobey, in Charge of Tobacco Breeding Experiments, Laboratory of Plant Breeding, Seed and Plant Introduction and Distribution. Pp. 40, pls. 9. (Bulletin No. 91, Bureau of Plant Industry.) Price 5 cents.
- Cranberry Spraying Experiments in 1905. By C. L. Shear, Pathologist, Vegetable Pathological and Physiological Investigations. Pp. 8, fig. 1. (Bulletin No. 100, Part I, Bureau of Plant Industry.) Price 5 cents.
- Colorimetric, Turbidity, and Titration Methods used in Soil Investigations. By Oswald Schreiner and George H. Failyer. Pp. 60, pl. 1, figs. 5. (Bulletin No. 31, Bureau of Soils.) Price 5 cents.

REPRINTS.

- Bulletin No. 67, Office of Experiment Stations. Studies on Bread and Bread Making. Price 10 cents.
- Bulletin No. 69, revised edition, Office of Experiment Stations. Experiments on the Metabolism of Matter and Energy in the Human Body. Price 10 cents.
- Bulletin No. 75, Office of Experiment Stations. Dietary Studies of University Boat Crews. Price 5 cents.
- Bulletin No. 91, Office of Experiment Stations. Nutrition Investigations at the University of Illinois, North Dakota Agricultural College, and Lake Erie College, Ohio, 1896-1900. Price 5 cents.
- Bulletin No. 121, Office of Experiment Stations. Experiments on the Metabolism of Nitrogen, Sulphur, and Phosphorus in the Human Organism. Price 5 cents.
- Bulletin No. 135, Office of Experiment Stations. Legislation Relating to Farmers' Institutes in the United States. Price 5 cents.
- Bulletin No. 159, Office of Experiment Stations. A Digest of Japanese Investigations on the Nutrition of Man. Price 20 cents.
- Bulletin No. 24, Part I, Division of Forestry. A Primer of Forestry. Part I—The Forest. Price 35 cents, cloth.
- Bulletin No. 76, Bureau of Plant Industry. Copper as an Algicide and Disinfectant in Water Supplies. Price 5 cents.

CIRCULARS.

NEW.

- List of Publications of the Biological Survey, Department of Agriculture, 1906. Pp. 6. (Circular No. 51, Bureau of Biological Survey.)
- Directions for Destroying Pocket Gophers. By David E. Lantz, Assistant. Pp. 4, figs. 3. (Circular No. 52, Bureau of Biological Survey.)
- Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1905. Pp. 16. (Circular No. 26, Bureau of Chemistry.)
- Cooperative Work on Fats and Oils, Association of Official Agricultural Chemists, 1906. By L. M. Tolman, Associate Referee on Fats and Oils. Pp. 6. (Circular No. 27, Bureau of Chemistry.)
- The Tobacco Thrips and Remedies to Prevent "White Veins" in Wrapper Tobacco (*Euthrips nicotianæ* Hinds). By W. A. Hooker, Special Field Agent. Pp. 5, figs. 2. (Circular No. 68, Bureau of Entomology.)
- The Functions and Uses of Foods. By C. F. Langworthy, Office of Experiment Stations. Pp. 11. (Circular No. 46, revised, Office of Experiment Stations.)

Statistics of Land-grant Colleges and Agricultural Experiment Stations, 1905. Compiled by Miss M. T. Spethmann. Pp. 9. (Circular No. 64, Office of Experiment Stations.)

Monthly List of Publications, January, 1906. Pp. 4. (Doc. 531, Division of Publications.)

Adulteration of Kentucky Bluegrass and Orchard Grass Seed. Pp. 5. (Circular No. 15, Office of the Secretary.)

Crop Reporter, Vol. 7, No. 10, February, 1906. Published by the U. S. Department of Agriculture under the supervision of the Assistant Secretary. Pp. 87-94.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 54, Bureau of Animal Industry. Pathological Report of a Case of Rabies in a Woman.

Circular No. 72, Bureau of Animal Industry. New Facts Concerning the Etiology of Hog Cholera.

Circular No. 82, Bureau of Animal Industry. Hints to Poultry Raisers.

Circular No. 15, Bureau of Chemistry. Results of Borax Experiment.

Circular No. 63, second edition, Bureau of Entomology. Root-maggots and How to Control Them.

FARMERS' BULLETINS.

NEW.

Citrus Fruit Growing in the Gulf States. By P. H. Rolfs, Pathologist in Charge of Subtropical Laboratory, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. 48, figs. 17. (Farmers' Bulletin No. 238.)

This bulletin is issued in response to numerous requests for information on this subject, and contains brief and concise directions for the production of a citrus orchard, together with suggestions for packing, shipping, and storing the fruit.

Experiment Station Work—XXXIII. Compiled from the publications of the agricultural experiment stations. Pp. 32, figs. 6. (Farmers' Bulletin No. 244.)

CONTENTS: Handling seed corn—Adaptation of seed corn—Effect of root nodules on composition of crops—Fumigation of nursery stock—Cooking quality of potatoes—Food value of cottage cheese, rice, peas, and bacon—Methods of feeding poultry—Extermination of cattle ticks—Covered yards for cows.

REPRINTS.

No. 22.—The Feeding of Farm Animals, revised edition. Pp. 40.

No. 32.—Silos and Silage, revised edition. Pp. 32, figs. 6.

No. 34.—Meats: Composition and Cooking. Pp. 32, figs. 4.

No. 41.—Fowls: Care and Feeding. Pp. 24, figs. 4.

No. 49.—Sheep Feeding. Pp. 24.

No. 51.—Standard Varieties of Chickens. Pp. 48, figs. 42.

No. 73.—Experiment Station Work—IV. Pp. 32, figs. 3.

No. 77.—The Liming of Soils. Pp. 24.

No. 96.—Raising Sheep for Mutton. Pp. 48, figs. 18.

No. 99.—Three Insect Enemies of Shade Trees. Pp. 32, figs. 11.

No. 105.—Experiment Station Work—XII. Pp. 32, figs. 4.

No. 109.—Farmers' Reading Courses. Pp. 20.

No. 112.—Bread and the Principles of Bread Making. Pp. 40, figs. 3.

No. 113.—The Apple and How to Grow it. Pp. 32, figs. 10.

No. 122.—Experiment Station Work—XVI. Pp. 32, figs. 5.

No. 129.—Sweet Potatoes. Pp. 40.

No. 136.—Earth Roads. Pp. 24, figs. 20.

No. 138.—Irrigation in Field and Garden. Pp. 40, figs. 18.

No. 148.—Celery Culture. Pp. 32, figs. 7.

No. 166.—Cheese Making on the Farm. Pp. 16, figs. 3.

No. 175.—Home Manufacture and Use of Unfermented Grape Juice. Pp. 16, figs. 8.

No. 177.—Squab Raising. Revised May, 1904. Pp. 32, figs. 11.

No. 181.—Pruning. Pp. 40, figs. 25.

No. 197.—Importation of Game Birds and Eggs for Propagation. Pp. 30, fig. 1.

No. 200.—Turkeys: Standard Varieties and Management. Pp. 40, figs. 12.

No. 208.—Varieties of Fruits Recommended for Planting. Pp. 48, fig. 1.

No. 215.—Alfalfa Growing. Pp. 40, figs. 8.

No. 218.—The School Garden. Pp. 40, figs. 33.

No. 235.—Cement, Mortar, and Concrete. Pp. 32, figs. 14.

SEPARATES.

FROM YEARBOOK, DEPARTMENT OF AGRICULTURE, 1900.

The Value of Potatoes as Food. By C. F. Langworthy, Office of Experiment Stations. Pp. iii, 337-348, figs. 3. (Extract No. 213.)

FROM YEARBOOK, DEPARTMENT OF AGRICULTURE, 1904.

Opportunities in Agriculture. I. Growing Crops under Glass. By B. T. Galloway, Chief of the Bureau of Plant Industry. II. Fruit Growing. By M. B. Waite, Pathologist in Charge of Investigations of Diseases of Orchard Fruits, Bureau of Plant Industry. III. General Farming. By W. J. Spillman, Agrostologist, Bureau of Plant Industry. Pp. ii, 161-190. (Extract No. 340.)

FROM ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS, 1902.

Dietary Studies of Groups, Especially in Public Institutions. By C. F. Langworthy, Food and Nutrition Expert. Pp. iii, 387-416.

FROM ANNUAL REPORTS, DEPARTMENT OF AGRICULTURE, 1905.

Report of the Chemist for 1905. By H. W. Wiley. Pp. ii, 495-523.

Report of the Director of the Office of Experiment Stations for 1905. By A. C. True. Pp. iv, 439-494.

Report on New Department Buildings for 1905. By B. T. Galloway, Chairman, Building Committee. Pp. iii, 525-528.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps not received.]

Daily River Stages at River Gage Stations on the Principal Rivers of the United States, Part VII, for the Years 1900, 1901, 1902, 1903, and 1904. Prepared under the direction of Willis L. Moore, Chief of Bureau, by H. C. Frankensfield, Professor of Meteorology. Pp. 728. (W. B. No. 339.) Price, paper, \$11; cloth, \$13.

A First Report on the Relations between Climates and Crops. By Cleveland Abbe. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 386. (Bulletin No. 36, Weather Bureau. W. B. No. 342.) Price \$1.50.

Monthly Weather Review. Vol. XXXIII, No. 11, November, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 471-514, fig. 1, charts 11. (W. B. No. 345.) Price 20 cents; \$2 per year.

Charts of the Weather Bureau—

Snow and Ice Bulletin for Tuesdays, February 6, 13, 20, and 27, 1906. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

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No. 534.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *March 31, 1906.*

MONTHLY LIST OF PUBLICATIONS.

[MARCH, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

REPORT.

NEW.

Annual Reports of the Department of Agriculture for the Fiscal Year Ended June 30, 1905. Pp. cxxxiv, 569. (Report of the Secretary. Departmental Reports.) Price, cloth, 55 cents.

ADVANCE SHEETS.

FIELD OPERATIONS, BUREAU OF SOILS, 1904.

Soil Survey of De Soto Parish, Louisiana. By Grove B. Jones and La Mott Ruhlen. Pp. 25, fig. 1, map 1.

FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of Dallas County, Alabama. By E. P. Carr, W. Edward Hearn, Hugh H. Bennett, and R. T. Avon Burke. Pp. 24, fig. 1, map 1.

Soil Survey of Duplin County, North Carolina. By Aldert S. Root and Lewis A. Hurst. Pp. 23, fig. 1, map 1.

Soil Survey of Lavaca County, Texas. By Charles N. Mooney, Frank Bennett, A. T. Strahorn, and H. L. Belden. Pp. 24, fig. 1, map 1.

Soil Survey of Lauderdale County, Alabama. By F. E. Bonsteel, Orla L. Ayrs, Thomas D. Rice, and E. P. Carr. Pp. 21, fig. 1, map 1.

Soil Survey of Spalding County, Georgia. By J. E. Lapham, W. S. Lyman, and Charles W. Ely. Pp. 15, fig. 1, map 1.

Soil Survey of the Westerville Area, Ohio. By J. E. Lapham and Charles N. Mooney. Pp. 19, fig. 1, map 1.

BULLETINS.

NEW.

Texas Fever (Otherwise Known as Tick Fever, Splenetic Fever, or Southern Cattle Fever), with Methods for Its Prevention. By John R. Mohler, Chief of Pathological Division, Bureau of Animal Industry. Pp. 48, figs. 3, pls. 3. (Bulletin No. 78, Bureau of Animal Industry.) Price 10 cents.

Experiment Station Record. Vol. XVII, No. 7. E. W. Allen, Ph. D., Editor. Pp. ix, 625-724. (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

A Working Plan for Forest Lands in Central Alabama. By Franklin W. Reed, Forest Assistant, Forest Service. Pp. 71, pls. 4, maps 2. (Bulletin No. 68, Forest Service.) Price 10 cents.

The Control of Apple Bitter-rot. By W. M. Scott, Pathologist, Vegetable Pathological and Physiological Investigations. Pp. 36, pls. 8, fig. 1. (Bulletin No. 93, Bureau of Plant Industry.) Price — cents.

- The Wrapping of Apple Grafts and Its Relation to the Crown-gall Disease. By Hermann von Schrenk, Special Agent in Charge of the Mississippi Valley Laboratory, and George G. Hedgecock, Assistant in Pathology. Pp. 12. (Bulletin No. 100, Part II, Bureau of Plant Industry.) Price 5 cents.
- Meat Animals and Packing-house Products Imported into Eleven Principal Countries, 1895-1904. Prepared by the Division of Foreign Markets. Pp. 92. (Bulletin No. 40, Bureau of Statistics.) Price 5 cents.
- Norway, Sweden, and Russia as Markets for Packing-house Products. Imports from Principal Countries, 1895-1904. Prepared by the Division of Foreign Markets. Pp. 21. (Bulletin No. 41, Bureau of Statistics.) Price 5 cents.

REPRINTS.

- Bulletin No. 29, Bureau of Animal Industry. American Breeds of Fowls. I. The Plymouth Rock. Price 15 cents.
- Bulletin No. 31, Bureau of Animal Industry. American Breeds of Fowls. II. The Wyandotte. Price 15 cents.
- Bulletin No. 61, Bureau of Animal Industry. The Score Card in Stock Judging at Agricultural Colleges. Price 25 cents.
- Bulletin No. 77, Bureau of Animal Industry. Cattle, Sheep, and Hog Feeding in Europe. Price 5 cents.
- Bulletin No. 69, revised, Part I, Bureau of Chemistry. Foods and Food Control. Revised to July 1, 1905. I. Federal Laws and Laws of Alabama, Alaska, Arizona, Arkansas, California, Colorado, and Connecticut. Price 5 cents.
- Bulletin No. 69, Part II, Bureau of Chemistry. Foods and Food Control. II. Laws of Delaware, the District of Columbia, the Dominion of Canada, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, and Iowa. Price 5 cents.
- Bulletin No. 17, Division of Forestry. Check List of the Forest Trees of the United States, Their Names and Ranges. Price 15 cents.
- Bulletin No. 52, Bureau of Forestry. Forest Planting in Western Kansas. Price 10 cents.
- Bulletin No. 20, revised, Division of Agrostology (Grass and Forage Investigations). American Grasses—III (illustrated). Descriptions of the Tribes and Genera. Price 15 cents.
- Bulletin No. 10, Division of Soils. The Mechanics of Soil Moisture. Price 5 cents.
- Bulletin No. 30, Bureau of Soils. The Mineral Constituents of the Soil Solution. Price 5 cents.
- Bulletin No. 41, Bureau of Statistics. Norway, Sweden, and Russia as Markets for Packing-house Products. Imports from Principal Countries, 1895-1904. Price 5 cents.

CIRCULARS.

NEW.

- Tests of Commercial Cultures of Nitrogen-fixing Bacteria. By B. T. Galloway, Chief, Bureau of Plant Industry. P. 1. (Circular No. 16, Office of the Secretary.)
- Bacillus Necrophorus and Its Economic Importance. By John R. Mohler and George Byron Morse, Pathological Laboratory, Bureau of Animal Industry. (Reprint from the Twenty-first Annual Report of the Bureau of Animal Industry, 1904.) Pp. 76-116. (Circular No. 91, Bureau of Animal Industry.)
- House Flies (*Musca domestica* et al.). By L. O. Howard, Entomologist and Chief of Bureau. Pp. 9, figs. 9. (Circular No. 71, revision of Circular No. 35, Bureau of Entomology.)
- List of Station Publications Received by the Office of Experiment Stations during January and February, 1906. Pp. 8. (Doc. 872, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on the Food and Nutrition of Man. (Corrected to March 1, 1906.) Pp. 14. (Doc. 865, Office of Experiment Stations.)
- Practical Assistance to Tree Planters, fourth revision. By Gifford Pinchot, Forester. Pp. 4. (Circular No. 22, Forest Service.)
- Suggestions to Prospective Forest Students. Pp. 4. (Circular No. 23, third revision, Forest Service.)
- Monthly List of Publications, February, 1906. Pp. 4. (Doc. 533, Division of Publications.)
- Crop Reporter, Vol. 7, No. 11, March, 1906. Published by the U. S. Department of Agriculture under the supervision of the Assistant Secretary. Pp. 95-102. A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

- Circular No. 48, Bureau of Animal Industry. Scales of Points for Judging Cattle of Dairy Breeds.
- Circular No. 61, Bureau of Animal Industry. A New Nematode (*Gongylonema ingluvicola*) Parasitic in the Crop of Chickens.
- Circular No. 66, Bureau of Animal Industry. Osteomalacia, or Creeps, in Cattle.
- Circular No. 75, Bureau of Animal Industry. Feeding Fat into Milk.
- Circular No. 42, second series, fourth edition, Bureau of Entomology. How to Control the San Jose Scale.
- Circular No. 32, Bureau of Forestry. Progress Report on the Strength of Structural Timber.
- Circular No. 34, Bureau of Forestry. Practical Results of the Cup and Gutter System of Turpentining.

FARMERS' BULLETINS.

NEW.

Fungicides and Their Use in Preventing Diseases of Fruits. By M. B. Waite, Pathologist in Charge of Investigations of Diseases of Fruits, Bureau of Plant Industry. Pp. 32, figs. 17. (Farmers' Bulletin No. 243.)

This bulletin is to supersede Farmers' Bulletin No. 38, "Spraying for Fruit Diseases," published in 1896, and includes a brief description of the most important fungicides and their use in preventing some of the more prevalent fruit diseases.

Renovation of Worn-out Soils. By W. J. Spillman, Agriculturist in Charge of Farm Management Investigations, Bureau of Plant Industry. Pp. 16. (Farmers' Bulletin No. 245.)

Suggestions for improving and maintaining fertility of the soil, remedies for soil washing, and methods of tillage and manuring.

The Control of the Codling Moth and Apple Scab. By C. L. Marlatt, Bureau of Entomology, and W. A. Orton, Bureau of Plant Industry. Pp. 22, figs. 9. (Farmers' Bulletin No. 247.)

A brief statement of the nature of the two principal enemies of the apple, with directions for preparing and applying mixtures for their control. The bulletin also contains a spray calendar.

REPRINTS.

- No. 28.—Weeds: And How to Kill Them. Pp. 32, figs. 11.
- No. 35.—Potato Culture. Pp. 24, figs. 2.
- No. 55.—The Dairy Herd. Pp. 30.
- No. 63.—Care of Milk on the Farm. Pp. 40, figs. 9.
- No. 66.—Meadows and Pastures. Pp. 30, figs. 9.
- No. 81.—Corn Culture in the South. Pp. 24.
- No. 82.—The Culture of Tobacco. Pp. 24.
- No. 86.—Thirty Poisonous Plants of the United States. Pp. 32, figs. 24.
- No. 95.—Good Roads for Farmers. Pp. 48, figs. 49.
- No. 97.—Experiment Station Work—X. Pp. 32.
- No. 111.—The Farmer's Interest in Good Seed. Pp. 24.
- No. 126.—Practical Suggestions for Farm Buildings. Pp. 48, figs. 28.
- No. 133.—Experiment Station Work—XVIII. Pp. 32, figs. 14.
- No. 141.—Poultry Raising on the Farm. Pp. 16, figs. 31.
- No. 154.—The Home Fruit Garden. Pp. 16, figs. 6.
- No. 161.—Practical Suggestions for Fruit Growers. Pp. 30, figs. 8.
- No. 170.—Principles of Horse Feeding. Pp. 44.
- No. 179.—Horseshoeing. Pp. 30, figs. 18.
- No. 183.—Meat on the Farm. Pp. 38, figs. 35.
- No. 186.—Experiment Station Work—XXIII. Pp. 32, figs. 9.
- No. 187.—Drainage of Farm Lands. Pp. 40, figs. 19.
- No. 198.—Strawberries. Pp. 24, figs. 15.
- No. 199.—Corn Growing. Pp. 32, figs. 23.
- No. 203.—Canned Fruit, Preserves, and Jellies. Pp. 32, figs. 5.
- No. 204.—The Cultivation of Mushrooms. Pp. 24, figs. 10.
- No. 205.—Pig Management. Pp. 40, figs. 22.
- No. 206.—Milk Fever. Pp. 16, figs. 2.
- No. 217.—Essential Steps in Securing an Early Crop of Cotton. Pp. 16.
- No. 220.—Tomatoes. Pp. 32, figs. 13.
- No. 228.—Forest Planting and Farm Management. Pp. 22, figs. 3.
- No. 229.—The Production of Good Seed Corn. Pp. 24, figs. 10.
- No. 236.—Incubation and Incubators. Pp. 32, figs. 11.
- No. 240.—Inoculation of Legumes. Pp. 8.
- No. 242.—An Example of Model Farming. Pp. 16, figs. 5.

SEPARATES.

YEARBOOK, DEPARTMENT OF AGRICULTURE, 1902.

- Influence of Forestry upon the Lumber Industry. By Overton W. Price, Assistant Forester, Bureau of Forestry. Pp. iii, 309–312, pls. 3. (Extract No. 274.)
- Fertilizers for Special Crops. By A. F. Woods and R. E. B. McKenney, of the Bureau of Plant Industry. Pp. iii, 553–572. (Extract No. 290.)

YEARBOOK, DEPARTMENT OF AGRICULTURE, 1903.

- The Farmers' Institutes. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. ii, 149-158. (Extract No. 312.)
 Recent Progress in Timber Preservation. By Hermann von Schrenk, in Charge of Forest Products, Bureau of Forestry. Pp. ii, 427-440, pls. 3, figs. 3. (Extract No. 315.)

YEARBOOK, DEPARTMENT OF AGRICULTURE, 1904.

- Boys' Agricultural Clubs. By Dick J. Crosby, of the Office of Experiment Stations. Pp. v, 489-496. (Extract No. 362.)
 The Attitude of Lumbermen toward Forest Fires. By E. A. Sterling, Forest Assistant, Bureau of Forestry. Pp. ii, 133-140, pls. 3. (Extract No. 337.)
 The Determination of Timber Values. By Edward A. Braniff, Forest Assistant, Bureau of Forestry. Pp. iii, 453-460. (Extract No. 359.)
 Progress of Forestry in 1904. By Quincy R. Craft, Editorial Clerk, Bureau of Forestry. Pp. 588-593, pl. 1. (Extract No. 372.)
 The Improvement of Tobacco by Breeding and Selection. By Archibald D. Shamel, Scientific Assistant, Plant Breeding Laboratory, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. iii, 435-452, pls. 7, figs. 2. (Extract No. 358.)

ANNUAL REPORTS, DEPARTMENT OF AGRICULTURE, 1905.

- Report of the Appointment Clerk for 1905. By J. B. Bennett. Pp. ii, 529-542.

ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS, 1903.

- Nutrition Investigations at the Government Hospital for the Insane, Washington, D. C. By W. O. Atwater, Chief of Nutrition Investigations. Pp. ii, 503-512.

BULLETIN NO. 158, OFFICE OF EXPERIMENT STATIONS.

- Annual Report of Irrigation and Drainage Investigations, 1904, under the Direction of Elwood Mead, Chief of Irrigation and Drainage Investigations. Separate No. 8: Irrigation Experiments at Fort Hays, Kansas, 1903 and 1904. By J. G. Haney. Irrigation near Garden City, Kansas, 1904. By A. E. Wright and A. B. Collins. Pumping Plants in Colorado, Nebraska, and Kansas. By O. V. P. Stout, Irrigation Engineer, University of Nebraska. Irrigation near Rockyford, Colorado, 1904. By A. E. Wright, Irrigation Engineer. The Irrigation and Drainage of Cranberry Marshes in Wisconsin. By A. B. Whitson, Professor of Agricultural Physics, Wisconsin Agricultural Experiment Station. Pp. iv, 567-642, figs. 3.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps not received.]

- Recent Practice in the Erection of Lightning Conductors. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. By Alfred J. Henry, Professor of Meteorology. Pp. 20. (Weather Bureau Bulletin No. 37. W. B. No. 349.) Price 10 cents.
 Meteorological Chart of the Great Lakes. Summary for the Season of 1905. No. 2, 1905. By Alfred J. Henry and Norman B. Conger. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 12, chart 1. (W. B. No. 350.) Price 10 cents.

Charts of the Weather Bureau—

Snow and Ice Bulletin for Tuesdays, March 6, 13, 20, and 27, 1906. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

- Experiment Station Work, Vol. II, No. 13. Compiled from the publications of the agricultural experiment stations. Pp. iv, 337-364, figs. 6.
 Experiment Station Record, November, 1890. Vol. 2, No. 4.

GEO. WM. HILL,
Editor and Chief.

Approved:
 JAMES WILSON,
Secretary of Agriculture.

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No. 535
This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., April 30, 1906.

MONTHLY LIST OF PUBLICATIONS.

[APRIL 30, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1904.

Soil Survey of the Munising Area, Michigan. By Thomas D. Rice and W. J. Geib. Pp. 25, fig. 1, map 1.

Soil Survey of the Garden City Area, Kansas. By James L. Burgess and George N. Coffey. Pp. 33, fig. 1, map 1.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of the Waco Area, Texas. By A. W. Mangum and M. Earl Carr. Pp. 37, fig. 1, map 1.

Soil Survey of Blount County, Alabama. By William G. Smith and F. N. Meeker. Pp. 22, fig. 1, map 1.

Soil Survey of the Crystalsprings Area, Mississippi. By James L. Burgess and W. E. Tharp. Pp. 23, fig. 1, map 1.

BULLETINS—NEW.

Fungi in Cheese Ripening: Camembert and Roquefort. By Charles Thom, Mycologist in Cheese Investigations, Dairy Division, Bureau of Animal Industry. Pp. 39, figs. 3. (Bulletin No. 82, Bureau of Animal Industry.) Price 5 cents.

Some Forms of Food Adulteration and Simple Methods for Their Detection. By W. D. Bigelow, Chief, Division of Foods, and Burton J. Howard, Chief, Microchemical Laboratory. Pp. 59. (Bulletin No. 100, Bureau of Chemistry.) Price 10 cents.

A Classification of the Mosquitoes of North and Middle America. By D. W. Coquillett, Assistant Entomologist. Pp. 31, fig. 1. (Bulletin No. 11, technical series, Bureau of Entomology.) Price 5 cents.

Proceedings of the Nineteenth Annual Convention of the Association of Agricultural Colleges and Experiment Stations, held at Washington, D. C., November 14-16, 1905. Edited by A. C. True and W. H. Beal, for the Office of Experiment Stations, and H. C. White, for the Executive Committee of the Association. Pp. 189, diagrams 2. (Bulletin No. 164, Office of Experiment Stations.) Price 10 cents.

Proceedings of the Tenth Annual Meeting of the American Association of Farmers' Institute Workers, held at Washington, D. C., November 9-11, 1905. Edited by W. H. Beal and John Hamilton, for the Office of Experiment Stations, and G. C. Creelman, for the Association. Pp. 95. (Bulletin No. 165, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record. Vol. XVII, No. 8. E. W. Allen, Ph. D., Editor. Pp. ix, 725-824. (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

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Garlicky Wheat. By J. W. T. Duvel, Assistant in the Seed Laboratory. Pp. 16, pls. 2. (Bulletin No. 100, Part III, Bureau of Plant Industry.) Price 5 cents.

The Absorption of Phosphates and Potassium by Soils. By Oswald Schreiner and George H. Failyer. Pp. 39, figs. 6. (Bulletin No. 32, Bureau of Soils.) Price 10 cents.

BULLETINS—REPRINTS.

Bulletin No. 34, Bureau of Animal Industry. American Breeds of Beef Cattle, with Remarks on Pedigrees. Price 20 cents.

Bulletin No. 37, Bureau of Animal Industry. Market Classes of Horses. Price 15 cents.

Bulletin No. 46, Bureau of Animal Industry. The Milk Supply of Two Hundred Cities and Towns. Price 15 cents.

Bulletin No. 47, Bureau of Animal Industry. The Hog Industry. Price 30 cents.

Bulletin No. 50, Bureau of Animal Industry. German Meat Regulations, with Original Text. Price 5 cents.

Bulletin No. 64, Bureau of Animal Industry. State Stock Breeders' Associations. Price 5 cents.

Bulletin No. 66, Bureau of Animal Industry. The Gid Parasite (*Cœnurus cerebralis*): Its Presence in American Sheep. Price 5 cents.

Bulletin No. 67, Bureau of Animal Industry. Necrotic Stomatitis. Price 10 cents.

Bulletin No. 13, Bureau of Chemistry. Foods and Food Adulterants. Part 10—Preserved Meats. Price 15 cents.

Bulletin No. 62, Bureau of Chemistry. Proceedings of the Seventeenth Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., November 16, 17, and 19, 1900. Price 10 cents.

- Bulletin No. 69, Bureau of Chemistry. Foods and Food Control. Revised to July 1, 1905. Part III—Laws of Kansas, Kentucky, Louisiana, Maine, Maryland, and Massachusetts. Price 5 cents.
- Bulletin No. 69, Bureau of Chemistry. Foods and Food Control. Revised to July 1, 1905. Part IV—Laws of Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada and New Hampshire. Price 5 cents.
- Bulletin No. 69, Bureau of Chemistry. Foods and Food Control. Revised to July 1, 1905. Part V—Laws of New Jersey, New Mexico, New York, North Carolina, and North Dakota. Price 5 cents.
- Bulletin No. 69, Bureau of Chemistry. Foods and Food Control. Revised to July 1, 1905. Part VII—Laws of Porto Rico, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, and Vermont. Price 5 cents.
- Bulletin No. 69, Bureau of Chemistry. Foods and Food Control. Revised to July 1, 1905. Part VIII—Laws of Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Price 5 cents.
- Bulletin No. 3, new series, Division of Entomology. The San Jose Scale. Price 10 cents.
- Bulletin No. 4, new series, revised edition, Division of Entomology. The Principal Household Insects of the United States. Price 10 cents.
- Bulletin No. 5, new series, Division of Entomology. Insects Affecting Domestic Animals. Price 20 cents.
- Bulletin No. 22, new series, Division of Entomology. Some Miscellaneous Results of the Work of the Division of Entomology. IV. Price 10 cents.
- Bulletin No. 26, new series, Division of Entomology. Proceedings of the Twelfth Annual Meeting of the Association of Economic Entomologists. Price 10 cents.
- Bulletin No. 33, new series, Division of Entomology. Some Insects Injurious to Vegetable Crops. Price 10 cents.
- Bulletin No. 34, new series, Bureau of Entomology. Principal Insects Liable to be Distributed on Nursery Stock. Price 5 cents.
- Bulletin No. 37, new series, Division of Entomology. Proceedings of the Fourteenth Annual Meeting of the Association of Economic Entomologists. Price 10 cents.
- Bulletin No. 45, Division of Entomology. The Mexican Cotton Boll Weevil. Price 25 cents.
- Bulletin No. 47, revised edition, Bureau of Entomology. Catalogue of the Exhibit of Economic Entomology at the Louisiana Purchase Exposition, St. Louis, Mo., 1904. Price 10 cents.
- Bulletin No. 51, Bureau of Entomology. The Mexican Cotton Boll Weevil, a Revision and Amplification of Bulletin No. 45. Price 15 cents.
- Bulletin No. 52, Bureau of Entomology. Proceedings of the Seventeenth Annual Meeting of the Association of Economic Entomologists. Price 10 cents.
- Bulletin No. 55, Bureau of Entomology. The Rearing of Queen Bees. Price 5 cents.
- Bulletin No. 147, Office of Experiment Stations. Report on Drainage Investigations, 1903. Price 10 cents.
- Bulletin No. 10, Division of Forestry. Timber; an Elementary Discussion of the Characteristics and Properties of Wood. Price 10 cents.
- Bulletin No. 26, Division of Forestry. Practical Forestry in the Adirondacks. Price 15 cents.
- Bulletin No. 31, Bureau of Forestry. Notes on the Red Cedar. Price 10 cents.
- Bulletin No. 45, Bureau of Forestry. The Planting of the White Pine in New England. Price 20 cents.
- Bulletin No. 61, Bureau of Forestry. Terms Used in Forestry and Logging. Price 5 cents.
- Bulletin No. 62, Forest Service. Grazing on the Public Lands. Price 15 cents.
- Bulletin No. 64, Forest Service. Loblolly Pine in Eastern Texas, with Special Reference to the Production of Cross-ties. Price 5 cents.
- Bulletin No. 66, Forest Service. Forest Belts of Western Kansas and Nebraska. Price 10 cents.
- Bulletin No. 54, Bureau of Plant Industry. Persian Gulf Dates and Their Introduction into America. Price 10 cents.
- Bulletin No. 85, Bureau of Plant Industry. The Principles of Mushroom Growing and Mushroom Spawn Making. Price 10 cents.
- Bulletin No. 93, Bureau of Plant Industry. The Control of Apple Bitter-rot. Price 10 cents.
- Bulletin No. 39, Bureau of Statistics. Meat in Foreign Markets, Tariffs of Fourteen Importing Nations, and Countries of Surplus. Price 5 cents.
- Bulletin No. 27, Division of Vegetable Physiology and Pathology. The Wilt Disease of Cotton and its Control. Price 5 cents.

CIRCULARS—NEW.

- Standards of Purity for Food Products. (Supplementing Circular No. 13.) Supplemental Proclamation. Pp. 7. (Circular No. 17, Office of the Secretary.)
- Some Insects Affecting the Production of Red Clover Seed. By F. M. Webster, in Charge of Cereal and Forage-plant Insect Investigations. Pp. 9, figs. 8. (Circular No. 69, Bureau of Entomology.)
- The Hessian Fly (*Mayetola* [*Cecidomyia*] *destructor* Say.). By F. M. Webster, in Charge of Cereal and Forage-plant Insect Investigations. Pp. 16, figs. 16. (Circular No. 70, Bureau of Entomology.)
- Key to the Known Larvæ of the Mosquitoes of the United States. By Harrison G. Dyar. Pp. 6, fig. 1. (Circular No. 72, Bureau of Entomology.)
- The Plum Curculio (*Conotrachelus nenuphar* Herbst). By Fred Johnson and A. A. Girault, Engaged in Deciduous-Fruit Insect Investigations. Pp. 10, figs. 5. (Circular No. 73, Bureau of Entomology.)
- The Periodical Cicada in 1906 (*Tibicen septendecim* L.). By C. L. Marlatt, Entomologist and Acting Chief in absence of Chief. Pp. 5, figs. 3. (Circular No. 74, Bureau of Entomology.)
- Forest Planting in the Sand-hill Region of Nebraska. Pp. 5. (Circular No. 37, Forest Service.)
- Monthly List of Publications, March, 1906. Pp. 4. (No. 534, Division of Publications.)
- Public Roads of the State of Washington: Mileage and Expenditures in 1904. Pp. 2. (Circular No. 39, Office of Public Roads.)
- Public Roads of Arizona: Mileage and Expenditures in 1904. Pp. 2. (Circular No. 40, Office of Public Roads.)
- Public Roads of Arkansas: Mileage and Expenditures in 1904. Pp. 3. (Circular No. 41, Office of Public Roads.)
- Public Roads of Oregon: Mileage and Expenditures in 1904. Pp. 2. (Circular No. 42, Office of Public Roads.)
- Public Roads of Virginia: Mileage and Expenditures in 1904. Pp. 4. (Circular No. 44, Office of Public Roads.)
- List of Publications of the Bureau of Soils, Edition of March, 1906. Pp. 21. (Bureau of Soils.)
- Crop Reporter, Vol. 7, No. 12, April, 1906. Published by the U. S. Department of Agriculture under the supervision of the Assistant Secretary. Pp. 103-110.
- A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

- Circular No. 47, Bureau of Animal Industry. A New Parasite (*Strongylus quadriradiatus* n. sp.) Found in the Pigeon.
- Circular No. 77, Bureau of Animal Industry. Animal Breeding and Feeding Investigations by the Bureau of Animal Industry.
- Circular No. 82, Bureau of Animal Industry. Hints to Poultry Raisers.
- Circular No. 89, Bureau of Animal Industry. The Preparation of Emulsions of Crude Petroleum.
- Circular No. 29, Biological Survey. Protection and Importation of Birds under Act of Congress Approved May 25, 1900.
- Circular No. 30, reprint, Biological Survey. Wild Animals and Birds which may be Imported without Permits.
- Circular No. 12, revised, Division of Botany. The Camphor Tree.
- Circular No. 22, Bureau of Chemistry. Cooperative Work on the Titer Test, Association of Official Agricultural Chemists, 1904.
- Circular No. 12, Division of Forestry. Southern Pine—Mechanical and Physical Properties.
- Circular No. 23, Bureau of Chemistry. Methods for the Examination of Maple Products.
- Circular No. 25, Bureau of Chemistry. Coloring Matters for Foodstuffs and Methods for Their Detection.
- Circular No. 71, revision of Circular No. 35, Bureau of Entomology. House Flies.
- Circular No. 10, Bureau of Soils. The Use of Alkaline and Saline Waters for Irrigation.

FARMERS' BULLETINS—NEW.

- Saccharine Sorghums for Forage. By Carleton R. Ball, Assistant Agrostologist, Bureau of Plant Industry. Pp. 38, figs. 7. (Farmers' Bulletin No. 246.)
Description and value of the leading varieties of saccharine sorghums, with instructions for planting, cultivation, harvesting, and use. This bulletin is designed to supersede Farmers' Bulletin No. 50, entitled Sorghum as a Forage Crop.
- The Lawn. By L. C. Corbett, Horticulturist, in Charge of the Arlington Experimental Farm, Bureau of Plant Industry. Pp. 20, figs. 5. (Farmers' Bulletin No. 248.)
Information as to the grasses best adapted to lawn making, with suggestions for the preparation of the soil, selection of seed, use of fertilizers, etc.
- The Prevention of Stinking Smut of Wheat and Loose Smut of Oats. By Walter T. Swingle, Physiologist in Charge of Plant Life History Investigations, Bureau of Plant Industry. Pp. 16, figs. 7. (Farmers' Bulletin No. 250.)
Directions for treating seed wheat and oats in order to prevent smut. This bulletin is prepared in advance of a more extended bulletin on the same subject and is intended primarily for distribution among farmers of the Northwest to be of use in treating wheat and oats during the present season.
- Experiment Station Work—XXXIV. Compiled from the publications of the agricultural experiment stations. Pp. 32, fig. 1. (Farmers' Bulletin No. 251.)
CONTENTS: American sugar-beet seed—Stimulants for seeds—Profits from spraying potatoes—Winter-injured fruit trees—Durum wheat—Fertility of eggs—Indoor versus outdoor feeding of steers—Roughage for steers—Cheap dairy rations—Cotton-seed meal for hogs.
- Maple Sugar and Sirup. By William F. Hubbard. Pp. 37, figs. 9. (Farmers' Bulletin No. 252.)
History and present status of the maple-sugar industry, and directions for planting and improving maple groves, tapping the trees, and gathering the sap, with illustrations and descriptions of improved utensils and methods for making the sirup and sugar.
- The Germination of Seed Corn. By J. W. T. Duvel, Assistant in the Seed Laboratory, Bureau of Plant Industry. Pp. 16, figs. 4. (Farmers' Bulletin No. 253.)
This bulletin presents facts to demonstrate the importance of testing the vitality of seed corn and shows how such tests may be made by every farmer at his home. It tells of a home-made germinating box and its use.

FARMERS' BULLETINS—REPRINTS.

- No. 22.—The Feeding of Farm Animals. Pp. 40.
- No. 24.—Hog Cholera and Swine Plague. Pp. 16.
- No. 25.—Peanuts: Culture and Uses. Pp. 24, fig. 1.
- No. 29.—Souring of Milk and Other Changes in Milk Products. Pp. 24.
- No. 35.—Potato Culture. Pp. 24, figs. 2.
- No. 37.—Kafir Corn. Pp. 16, fig. 1.
- No. 39.—Onion Culture. Pp. 32, figs. 3.
- No. 41.—Fowls: Care and Feeding. Pp. 24, figs. 4.
- No. 42.—Facts About Milk, revised. Pp. 32, figs. 8.
- No. 44.—Commercial Fertilizers. Pp. 38.
- No. 47.—Insects Affecting the Cotton Plant. Pp. 32, figs. 18.
- No. 48.—The Manuring of Cotton. Pp. 16.
- No. 49.—Sheep Feeding. Pp. 24.
- No. 51.—Standard Varieties of Chickens. Pp. 48, figs. 42.
- No. 52.—The Sugar Beet. Pp. 48, figs. 24.
- No. 54.—Some Common Birds in Their Relation to Agriculture. Pp. 48, figs. 22.
- No. 59.—Bee Keeping. Pp. 48, figs. 19.
- No. 61.—Asparagus Culture. Pp. 40, figs. 17.
- No. 62.—Marketing Farm Produce. Pp. 32, figs. 7.
- No. 68.—The Black Rot of the Cabbage. Pp. 32.
- No. 69.—Experiment Station Work—III. Pp. 32, figs. 2.
- No. 74.—Milk as Food. Pp. 40, charts 2.
- No. 80.—The Peach Twig-Borer. Pp. 16, figs. 5.
- No. 81.—Corn Culture in the South. Pp. 24.
- No. 83.—Tobacco Soils. Pp. 24, fig. 1.
- No. 85.—Fish as Food. Pp. 32.
- No. 87.—Experiment Station Work—VIII. Pp. 32, figs. 6.
- No. 91.—Potato Diseases and Their Treatment. Pp. 16, figs. 4.
- No. 94.—The Vegetable Garden. Pp. 24, figs. 8.
- No. 98.—Suggestions to Southern Farmers. Pp. 48.
- No. 100.—Hog Raising in the South. Pp. 40.
- No. 103.—Experiment Station Work—XI. Pp. 32, figs. 5.
- No. 106.—Breeding of Dairy Cattle. Pp. 48, figs. 21.

- No. 109.—Farmers' Reading Courses. Pp. 20.
 No. 111.—The Farmer's Interest in Good Seed. Pp. 24, figs. 7.
 No. 113.—The Apple and How to Grow It. Pp. 32, figs. 10.
 No. 114.—Experiment Station Work—XIV. Pp. 30, figs. 5.
 No. 121.—Beans, Peas, and Other Legumes as Food. Pp. 40, figs. 10.
 No. 125.—Protection of Food Products from Injurious Temperatures. Pp. 24.
 No. 126.—Practical Suggestions for Farm Buildings. Pp. 48, figs. 28.
 No. 128.—Eggs and Their Uses as Food. Pp. 38.
 No. 137.—The Angora Goat. Pp. 48, figs. 7.
 No. 143.—Conformation of Beef and Dairy Cattle. Pp. 46, figs. 44.
 No. 144.—Experiment Station Work—XIX. Pp. 32, figs. 9.
 No. 148.—Celery Culture. Pp. 32, figs. 7.
 No. 149.—Experiment Station Work—XX. Pp. 32, figs. 6.
 No. 150.—Clearing New Land. Pp. 24, figs. 7.
 No. 154.—The Home Fruit Garden: Preparation and Care. Pp. 16, figs. 6.
 No. 155.—How Insects Affect Health in Rural Districts. Pp. 20, figs. 16.
 No. 156.—The Home Vineyard. Pp. 24, figs. 15.
 No. 157.—The Propagation of Plants. Pp. 24, figs. 22.
 No. 167.—Cassava. Pp. 32, figs. 11.
 No. 169.—Experiment Station Work—XXII. Pp. 32, figs. 6.
 No. 170.—Principles of Horse Feeding. Pp. 44.
 No. 173.—A Primer of Forestry. Pp. 48, figs. 33.
 No. 177.—Squab Raising. Pp. 32, figs. 11.
 No. 181.—Pruning. Pp. 40, figs. 25.
 No. 182.—Poultry as Food. Pp. 40.
 No. 184.—Marketing Live Stock. Pp. 40.
 No. 185.—Beautifying the Home Grounds. Pp. 24, figs. 8.
 No. 188.—Weeds Used in Medicine. Pp. 46, figs. 31.
 No. 192.—Barnyard Manure. Pp. 32, figs. 4.
 No. 194.—Alfalfa Seed. Pp. 16, figs. 8.
 No. 195.—Annual Flowering Plants. Pp. 48, figs. 55.
 No. 196.—Usefulness of the American Toad. Pp. 16.
 No. 199.—Corn Growing. Pp. 32, figs. 23.
 No. 200.—Turkeys: Standard Varieties and Management. Pp. 40, figs. 12.
 No. 203.—Canned Fruit, Preserves, and Jellies. Pp. 32, figs. 5.
 No. 208.—Varieties of Fruits Recommended for Planting. Pp. 48, fig. 1.
 No. 211.—The Use of Paris Green in Controlling the Cotton Boll Weevil. Pp. 24.
 No. 213.—Raspberries. Pp. 38, figs. 25.
 No. 215.—Alfalfa Growing. Pp. 40, figs. 8.
 No. 216.—The Control of the Boll Weevil. Pp. 32, figs. 5.
 No. 217.—Essential Steps in Securing an Early Crop of Cotton. Pp. 16.
 No. 218.—The School Garden. Pp. 40, figs. 33.
 No. 219.—Lessons from the Grain-rust Epidemic of 1904. Pp. 24, figs. 6.
 No. 222.—Experiment Station Work—XXVIII. Pp. 32, fig. 1.
 No. 224.—Canadian Field Peas. Pp. 16, figs. 4.
 No. 225.—Experiment Station Work—XXIX. Pp. 32, figs. 6.
 No. 227.—Experiment Station Work—XXX. Pp. 32, figs. 2.
 No. 229.—The Production of Good Seed Corn. Pp. 24, figs. 10.
 No. 231.—Spraying for Cucumber and Melon Diseases. Pp. 24, figs. 8.
 No. 234.—The Guinea Fowl and Its Use as Food. Pp. 34, figs. 3.
 No. 235.—Cement, Mortar, and Concrete: Preparation and Use for Farm Purposes. Pp. 32, figs. 11.
 No. 237.—Experiment Station Work—XXXII. Pp. 32, figs. 6.
 No. 239.—The Corrosion of Fence Wire. Pp. 32.
 No. 241.—Butter Making on the Farm. Pp. 32.
 No. 242.—An Example of Model Farming. Pp. 16, figs. 5.
 No. 245.—Renovation of Worn-out Soils. Pp. 16.

SEPARATE—BULLETIN NO. 158, OFFICE OF EXPERIMENT STATIONS.

Annual Report of Irrigation and Drainage Investigations, 1904, under the direction of Elwood Mead, Chief of Irrigation and Drainage Investigations. Separate No. 2: Irrigation in Santa Clara Valley, California. By S. Fortier, Irrigation Engineer in Charge of Pacific District. Mechanical Tests of Pumping Plants used in Irrigation. By J. N. Le Conte, Expert in Pumping. Pp. iv, 71-91, 195-255, figs. 33.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps not received.]

Studies on the Diurnal Periods in the Lower Strata of the Atmosphere. Reprints from the Monthly Weather Review, February, March, April, May, July, and August, 1905. By Frank Hagar Bigelow, Professor of Meteorology. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. iii, 51, pls. 2, figs. 13, charts 11. (W. B. No. 344.)

Monthly Weather Review. Vol. XXXIII, No. 13, Annual Summary, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. xv, 571-591, charts 8. (W. B. No. 348.) Price 20 cents; \$2 per year.

Monthly Weather Review. Vol. XXXIV, No. 1, January, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1-60, figs. 18, charts 8. (W. B. No. 351.) Price 20 cents; \$2.50 per year.

Charts of the Weather Bureau—

National Monthly Weather Bulletin, 1906, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. (Nos. 1, 2, 3, 4, 5, and 6 to April, 1906.)

Snow and Ice Bulletin for Tuesdays, April 3, 10, 17, and 24, 1906. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

Approved:

JAMES WILSON,
Secretary of Agriculture.

GEO. WM. HILL,
Editor and Chief.

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P96M
This circular will be sent regularly to all who apply for it.

No. 536.

United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., May 31, 1906.

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1904.

- Soil Survey of the Auburn Area, New York. By J. E. Lapham and Hugh H. Bennett. Pp. 28, fig. 1, map 1.
Soil Survey of the Yuma Area, Arizona-California. By J. Garnett Holmes, Charles A. Jensen, Herbert W. Marean, N. P. Neill, Aldert S. Root, W. E. McLendon, J. L. Burgess, A. T. Strahorn, and A. T. Sweet. Pp. 27, fig. 1, maps 2.
Soil Survey of Lancaster County, South Carolina. By Aldert S. Root and L. A. Hurst. Pp. 20, fig. 1, map 1.

BULLETINS—NEW.

- The Black Wattle (*Acacia decurrens*) in Hawaii. By Jared G. Smith, Special Agent in Charge, Hawaii Agricultural Experiment Station. Pp. 16, pls. 3. (Bulletin No. 11, Hawaii Agricultural Experiment Station.) Price 10 cents.
The Composition of Some Hawaiian Feeding Stuffs. By Edmund C. Shorey, Chemist, Hawaii Agricultural Experiment Station. Pp. 23. (Bulletin No. 13, Hawaii Agricultural Experiment Station.) Price 10 cents.
Course in Cheese Making for Movable Schools of Agriculture. By L. L. Van Slyke, Chemist, New York State Agricultural Experiment Station. Pp. 63. (Bulletin No. 166, Office of Experiment Stations.) Price 10 cents.
Catalogue of Publications Relating to Entomology in the Library of the U. S. Department of Agriculture. Prepared under the direction of the Librarian. Pp. 562. (Bulletin No. 55, Library.) Price 40 cents.
Accessions to the Department Library. January–March, 1906. Pp. 77. (Bulletin No. 59, Library.)

BULLETINS—REPRINTS.

- Bulletin No. 14, revised, Division of Agrostology (Grass and Forage Plant Investigations). Economic Grasses. Price 10 cents.
Bulletin No. 45, Bureau of Animal Industry. Takosis, a Contagious Disease of Goats. Price 10 cents.
Bulletin No. 77, Bureau of Animal Industry. Cattle, Sheep, and Hog Feeding in Europe. Price 5 cents.
Bulletin No. 8, revised edition, Division of Biological Survey. The Jack Rabbits of the United States. Price 10 cents.
Bulletin No. 46, revised edition, Division of Chemistry. Methods of Analysis Adopted by the Association of Official Agricultural Chemists, November 11, 12, and 14, 1898. Price 5 cents.
Bulletin No. 65, Bureau of Chemistry. Provisional Methods for the Analysis of Foods Adopted by the Association of Official Agricultural Chemists, November 14–16, 1901. Price 10 cents.
Bulletin No. 69, Bureau of Chemistry. Foods and Food Control. Revised to July 1, 1905. Part VI—Laws of Ohio, Oklahoma, Oregon, Pennsylvania, and the Philippine Islands. Price 5 cents.
Bulletin No. 73, Bureau of Chemistry. Proceedings of the Nineteenth Annual Convention of the Association of Official Agricultural Chemists, Held at Washington, D. C., October 2, 3, and 4, 1902. Price 10 cents.

- Bulletin No. 80, Bureau of Chemistry. Adulterated Drugs and Chemicals. Price 5 cents.
- Bulletin No. 81, Bureau of Chemistry. Proceedings of the Twentieth Annual Convention of the Association of Official Agricultural Chemists, Held at Washington, D. C., November 19, 20, and 21, 1903. Price 15 cents.
- Bulletin No. 82, Bureau of Chemistry. Paris Green Spraying Experiments. Price 5 cents.
- Bulletin No. 90, Bureau of Chemistry. Proceedings of the Twenty-first Annual Convention of the Association of Official Agricultural Chemists, Held at St. Louis, Mo., September 26, 27, and 28, 1904. Price 15 cents.
- Bulletin No. 91, Bureau of Chemistry. Mineral Waters of the United States. Price 10 cents.
- Bulletin No. 1, new series, third edition, Division of Entomology. The Honey Bee: A Manual of Instruction in Apiculture. Price 15 cents.
- Bulletin No. 9, Hawaii Agricultural Experiment Station. Citrus Fruits in Hawaii. Price 5 cents.
- Bulletin No. 28, revised edition, Office of Experiment Stations. The Chemical Composition of American Food Materials. (Corrected April 14, 1906.) Price 5 cents.
- Bulletin No. 24, Division of Forestry. A Primer of Forestry. Part I—The Forest. Price, cloth, 35 cents.
- Bulletin No. 34, Bureau of Forestry. A History of the Lumber Industry in the State of New York. Price 20 cents.
- Bulletin No. 59, Bureau of Forestry. The Maple-Sugar Industry. Price 5 cents.
- Bulletin No. 63, Bureau of Forestry. The Natural Replacement of White Pine on Old Fields in New England. Price 10 cents.

CIRCULARS—NEW.

- Adulteration of Red Clover Seed. P. 1. (Circular No. 18, Office of the Secretary.)
- The Poultry Industry of Petaluma, Cal. By P. H. Lawler. (Reprint from Twenty-first Annual Report of the Bureau of Animal Industry, 1904.) Pp. 316-322, pls. 3. (Circular No. 92, Bureau of Animal Industry.)
- The Life History of the Twisted Wireworm (*Hæmonchus contortus*) of Sheep and Other Ruminants. (Preliminary Report.) By B. H. Ransom, Scientific Assistant in Charge of Zoological Laboratory. Pp. 7, figs. 2. (Circular No. 93, Bureau of Animal Industry.)
- Provisional Methods for the Determination of Food Preservatives as Authorized by the Association of Official Agricultural Chemists, 1905. Pp. 13, fig. 1. (Circular No. 28, Bureau of Chemistry.)
- Publications of the Office of Experiment Stations Issued during 1905 and Station Publications Received by the Office of Experiment Stations during 1905. Pp. 14. (Circular No. 66, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on Irrigation and Drainage. (Corrected to May 1, 1906.) Pp. 10. (Doc. No. 875, Office of Experiment Stations.)
- Publications of the Office of Experiment Stations Issued during 1900 and 1901 and Station Publications Received by the Office of Experiment Stations during 1900 and 1901. Pp. 26. (Doc. No. 878, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during March and April, 1906. Pp. 12. (Doc. No. 890, Office of Experiment Stations.)
- Publications of the United States Department of Agriculture for Sale by the Superintendent of Documents, Government Printing Office, Washington, D. C. (Corrected to March 1, 1906.) Pp. 74. (Doc. No. 179, 13th edition, Division of Publications.)
- List of Bulletins and Circulars Issued by the U. S. Department of Agriculture and Available for Free Distribution in the United States. (Corrected to April 1, 1906.) Pp. 39. (Doc. No. 247, 14th edition, Division of Publications.)
- Monthly List of Publications, April 30, 1906. Pp. 4. (Doc. 535, Division of Publications.)
- Public Roads of Iowa: Mileage and Expenditures in 1904. Pp. 3. (Circular No. 43, Office of Public Roads.)
- Public Roads of North Carolina: Mileage and Expenditures in 1904. Pp. 4. (Circular No. 45, Office of Public Roads.)
- The Wire-basket Method for Determining the Manurial Requirements of Soils. Pp. 6, figs. 2. (Circular No. 18, Bureau of Soils.)

Crop Reporter, Vol. 8, No. 1, May, 1906. Published by the U. S. Department of Agriculture under the supervision of the Assistant Secretary. Pp. 1-8.

A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

- Circular No. 1, revised, Bureau of Animal Industry. Directions for Pasteurizing Milk.
 Circular No. 83, Bureau of Animal Industry. Danger of Infection with Tuberculosis by Different Kinds of Exposure.
 Circular No. 94, Bureau of Animal Industry. Foot-rot of Sheep.
 Circular No. 17, Division of Biological Survey. Bird Day in the Schools.
 Circular No. 43, Division of Biological Survey. Definition of Open and Close Seasons for Game.
 Circular No. 21, new edition, Division of Botany. Yams in the West Indies.
 Circular No. 14, revised, Bureau of Chemistry. Organization of the Bureau of Chemistry.
 Circular No. 21, second series, Division of Entomology. The Strawberry Weevil.
 Circular No. 43, Division of Entomology. The Destructive Green Pea Louse.
 Circular No. 74, Bureau of Entomology. The Periodical Cicada in 1906.

FARMERS' BULLETINS—NEW.

Cereal Breakfast Foods. By Charles D. Woods, Director, Maine Agricultural Experiment Station, and Harry Snyder, Professor of Chemistry, College of Agriculture, University of Minnesota. Pp. 37. (Farmers' Bulletin No. 249.)

A discussion of the importance, preparation, and digestibility of the principal modern breakfast foods, with tables of their nutritive and fuel values.

The Home Vegetable Garden. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 48, figs. 34. (Farmers' Bulletin No. 255.)

Directions for the location and arrangement of the kitchen garden, preparation of the soil, selection of seeds and plants, with brief cultural suggestions for a number of the more important crops.

FARMERS' BULLETINS—REPRINTS.

- No. 28.—Weeds and How to Kill Them. Pp. 31, figs. 11.
 No. 32.—Silos and Silage. Pp. 32, figs. 6.
 No. 41.—Fowls: Care and Feeding. Pp. 24, figs. 4.
 No. 51.—Standard Varieties of Chickens. Pp. 48, figs. 42.
 No. 70.—The Principal Insect Enemies of the Grape. Pp. 24, figs. 12.
 No. 71.—Some Essentials in Beef Production. Pp. 24, figs. 17.
 No. 72.—Cattle Ranges of the Southwest. Pp. 32, figs. 9.
 No. 77.—The Liming of Soils. Pp. 24.
 No. 78.—Experiment Station Work—V. Pp. 32, figs. 2.
 No. 79.—Experiment Station Work—VI. Pp. 30, figs. 2.
 No. 92.—Experiment Station Work—IX. Pp. 30.
 No. 94.—The Vegetable Garden. Pp. 24, figs. 8.
 No. 95.—Good Roads for Farmers. Pp. 48, figs. 40.
 No. 96.—Raising Sheep for Mutton. Pp. 48, figs. 18.
 No. 101.—Millets. Pp. 32, figs. 6.
 No. 102.—Southern Forage Plants. Pp. 48, figs. 14.
 No. 112.—Bread and the Principles of Bread Making. Pp. 40, figs. 3.
 No. 116.—Irrigation in Fruit Growing. Pp. 48, figs. 8.
 No. 118.—Grape Growing in the South. Pp. 32, figs. 6.
 No. 126.—Practical Suggestions for Farm Buildings. Pp. 48, figs. 28.
 No. 129.—Sweet Potatoes. Pp. 40.
 No. 131.—Household Tests for the Detection of Oleomargarine and Renovated Butter. Pp. 12.
 No. 134.—Tree Planting on Rural School Grounds. Pp. 32, figs. 17.
 No. 136.—Earth Roads. Pp. 24, figs. 20.
 No. 141.—Poultry Raising on the Farm. Pp. 16, figs. 31.
 No. 142.—Principles of Nutrition and Nutritive Value of Food. Pp. 48, charts 2.
 No. 146.—Insecticides and Fungicides. Pp. 16.
 No. 152.—Scabies of Cattle. Pp. 32, figs. 17.
 No. 159.—Scab in Sheep. Pp. 46, figs. 17.
 No. 161.—Practical Suggestions for Fruit Growers. Pp. 30, figs. 8.
 No. 162.—Experiment Station Work—XXI. Pp. 32, figs. 3.
 No. 179.—Horseshoeing. Pp. 30, figs. 18.
 No. 190.—Experiment Station Work—XXIV. Pp. 32, figs. 14.
 No. 201.—The Cream Separator on Western Farms. Pp. 24.
 No. 205.—Pig Management. Pp. 40, figs. 22.
 No. 220.—Tomatoes. Pp. 32, figs. 13.
 No. 233.—Experiment Station Work—XXXI. Pp. 32, figs. 5.
 No. 236.—Incubation and Incubators. Pp. 32, figs. 11.
 No. 240.—Inoculation of Legumes. Pp. 8.
 No. 244.—Experiment Station Work—XXXIII. Pp. 32, figs. 6.

SEPARATE—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1895.

The Meadow Lark and Baltimore Oriole. By F. E. L. Beal, Assistant Ornithologist, U. S. Department of Agriculture. Pp. 419-430, figs. 2. (Extract No. 37.)

SEPARATE—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1899.

Progress of Agriculture in the United States. By George K. Holmes, Assistant Statistician. Pp. iii, 307-334. (Extract No. 179.)

SEPARATE—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1901.

The Hemp Industry in the United States. By Lyster H. Dewey, Assistant Botanist, Bureau of Plant Industry. Pp. ii, 541-554, pls. 4, figs. 2. (Extract No. 254.)

SEPARATE—ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS, 1902.

Publications of the Office of Experiment Stations Issued during 1902 and Station Publications Received by the Office of Experiment Stations during 1902. Pp. 192-206.

SEPARATE—ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS, 1903.

Publications of the Office of Experiment Stations Issued during 1903 and Station Publications Received by the Office of Experiment Stations during 1903. Pp. 3-18.

SEPARATE—ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS, 1904.

Publications of the Office of Experiment Stations Issued during 1904 and Station Publications Received by the Office of Experiment Stations during 1904. Pp. 186-201.

SEPARATE—OFFICE OF EXPERIMENT STATIONS BULLETIN NO. 80.

Publications of the Office of Experiment Stations, 1888-1899, and Publications of the Agricultural Experiment Stations of the United States, 1875-1899. Pp. 508-623.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.]

Monthly Weather Review. Vol. XXXIV, No. 2, February, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 61-108, figs. 10, charts 28. (W. B. No. 352.) Price 20 cents; \$2.50 per year.

Charts of the Weather Bureau—

National Monthly Weather Bulletin, 1906, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. (Nos. 7, 8, 9, 10, and 11 to May 28, 1906.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Work. Vol. II, No. 14. Compiled from the publications of the agricultural experiment stations. Pp. iii, 365-392.

REPRINTS FROM OFFICE OF EXPERIMENT STATIONS BULLETIN NO. 164.

The Relation of the Land-grant Colleges to the State Universities. By W. J. Kerr, President of Agricultural College of Utah. Pp. 119-124.

Annual Address of the President of the Association (American Agricultural Colleges and Experiment Stations). By E. B. Voorhees, Director of New Jersey Agricultural Experiment Stations. Pp. 29-36.

Memorial to President H. H. Goodell. By W. E. Stone, President of Purdue University. Pp. 57-60.

Courses in Agriculture, Horticulture, and Allied Subjects. By F. W. Rane, Professor of Horticulture, New Hampshire College of Agriculture and the Mechanic Arts, and Horticulturist, Experiment Station. Pp. 77-89.

REPRINT FROM EXPERIMENT STATION RECORD, VOL. XVII, NO. 7.

New Horticultural Building at the Massachusetts Agricultural College. Pp. iii, 630-632, pl. 1, figs. 4.

Approved:

JAMES WILSON,
Secretary of Agriculture.

GEO. WM. HILL,
Editor and Chief.

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This circular will be sent regularly to all who apply for it.

No. 538.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., June 30, 1906.

MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil survey of Montgomery County, Alabama. By W. E. McLendon and Charles J. Mann. Pp. 32, fig. 1, map 1.

REPORTS—NEW.

Yearbook of the U. S. Department of Agriculture, 1905. Pp. 815, pls. 73, figs. 130. Price \$1.

The Yearbook contains the annual report of the Secretary of Agriculture, 122 pages, and 30 miscellaneous papers, 440 pages, covering a wide variety of subjects thoroughly representative of the varied scientific work conducted by the Department; also an Appendix, 220 pages, and Index, 33 pages.

The Appendix contains lists of names and post-offices of persons prominent in agricultural work in all its branches. It presents summaries of agricultural observations in several fields, improvement of roads, and legislation on forestry interests, irrigation, foods, and noxious animal bounties. It closes with the annual statistical tables covering production and prices of the principal crops and farm animals, and the imports and exports of agricultural products.

Only 6 per cent of this publication is assigned to this Department, which is insufficient to supply even its regular correspondents and coworkers. Miscellaneous applicants are therefore respectfully referred to their Senators, Representatives, and Delegates in Congress, to whom the other 94 per cent is allotted for distribution. The Superintendent of Documents has it for sale at \$1 per copy.

Progress of the Beet-Sugar Industry in the United States in 1905. Prepared by Charles F. Saylor, Special Agent. Pp. 130, figs. 5. (Report No. 82.) Price 15 cents.

REPORT—REPRINT.

Report of the Forester for 1904. (From Annual Reports, Department of Agriculture.)

BULLETINS—NEW.

Investigations in the Manufacture and Storage of Butter. I. The Keeping Qualities of Butter Made under Different Conditions and Stored at Different Temperatures. By C. E. Gray, Dairy Expert in Charge of Butter Investigations, Dairy Division, Bureau of Animal Industry. With Remarks on the Scoring of Butter. By G. L. McKay, Professor of Dairying, Iowa State College. Pp. 24. (Bulletin No. 84, Bureau of Animal Industry.) Price 10 cents.

Experiments with Milk Artificially Infected with Tubercle Bacilli. By E. C. Schroeder, Superintendent of Experiment Station, Bureau of Animal Industry, and W. E. Cotton, Expert Assistant at Experiment Station, Bureau of Animal Industry. Pp. 19. (Bulletin No. 86, Bureau of Animal Industry.) Price 10 cents.

Birds That Eat the Cotton Boll Weevil. A Report of Progress. By Arthur H. Howell. Pp. 22. (Bulletin No. 25, Biological Survey.) Price 10 cents.

Catalogue of Recently Described Coccidæ. Miscellaneous Papers. Issued June 5, 1906. By J. G. Sanders, Assistant. Pp. iii, 18. (Bulletin No. 12, Technical Series, Part I, Bureau of Entomology.) Price 10 cents.

Some Insects Injurious to Forests. The Locust Borer. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. iv, 16, pl. 1, figs. 6. (Bulletin No. 58, Part I, Bureau of Entomology.) Price 5 cents.

Experiment Station Record. Vol. XVII, No. 9. May, 1906. E. W. Allen, Ph. D., Editor. Pp. ix, 825-928. (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

The Mango in Hawaii. By J. E. Higgins, Horticulturist, Hawaii Agricultural Experiment Station, under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 32, frontispiece, pls. 10. (Bulletin No. 12, Hawaii Agricultural Experiment Station.) Price 10 cents.

Grades and Amount of Lumber Sawed from Yellow Poplar, Yellow Birch, Sugar Maple, and Beech. By Edward A. Braniff, Forest Assistant, Forest Service. Pp. 30. (Bulletin No. 73, Forest Service.) Price 10 cents.

Methods of Testing the Burning Quality of Cigar Tobacco. By Wightman W. Garner, Scientific Assistant, Plant Breeding Investigations. Pp. 14, pls. 2, figs. 3. (Bulletin No. 100, Part IV, Bureau of Plant Industry.) Price 5 cents.

Reclamation of Alkali Soils. By Clarence W. Dorsey. Pp. 30, pls. 4. (Bulletin No. 34, Bureau of Soils.) Price 10 cents.

BULLETINS—REPRINTS.

Bulletin No. 63, Bureau of Animal Industry. Foot-rot of Sheep: Its Nature, Cause, and Treatment. Price 10 cents.

Bulletin No. 24, Bureau of Forestry. A Primer of Forestry. Part II: Practical Forestry. Price 30 cents.

Bulletin No. 39, Bureau of Forestry. Conservative Lumbering at Sewanee, Tennessee. Price 15 cents.

CIRCULARS—NEW.

Suggestions for Construction of a Modern Dairy Barn. Pp. 6, figs. 2. (Circular No. 90, Bureau of Animal Industry.) Issued February, 1906.

The Fecundity of Poland China and Duroc Jersey Sows. By George M. Rommel, Animal Husbandman, Bureau of Animal Industry. Pp. 12. (Circular No. 95, Bureau of Animal Industry.)

Changes in Provisional Methods for the Analysis of Foods, and Additions thereto, from 1902 to 1905. Pp. 20. (Circular No. 29, Bureau of Chemistry.)

List of Publications of the Office of Experiment Stations on the Food and Nutrition of Man. (Corrected to June 1, 1906.) Pp. 14. (Doc. No. 903, Office of Experiment Stations.)

Books by Agricultural College and Experiment Station Men. Pp. 8. (Office of Experiment Stations.)

Monthly List of Publications, May, 1906. Pp. 4. (Doc. No. 536, Division of Publications.)

Public Roads of Alabama: Mileage and Expenditures in 1904. Pp. 3. (Circular No. 46, Office of Public Roads.)

Tar and Oil for Road Improvement: Report of Progress of Experiments at Jackson, Tennessee. Pp. 8. (Circular No. 47, Office of Public Roads.)

Public Roads of Tennessee: Mileage and Expenditures in 1904. Pp. 4. (Circular No. 48, Office of Public Roads.)

Public Roads of New Hampshire: Mileage and Expenditures in 1904. Pp. 2. (Circular No. 49, Office of Public Roads.)

Public Roads of Maryland: Mileage and Expenditures in 1904. Pp. 2. (Circular No. 50, Office of Public Roads.)

Crop Reporter, Vol. 8, No. 2, June, 1906. Published by the U. S. Department of Agriculture under the supervision of the Assistant Secretary. Pp. 9-16.

A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

Circular No. 75, Bureau of Animal Industry. Feeding Fat into Milk.

Circular No. 89, Bureau of Animal Industry. The Preparation of Emulsions of Crude Petroleum.

Circular No. 9, second revision, Division of Botany. Wild Garlic.

Circular No. 18, second revision, Division of Botany. Crimson Clover Seed.

Circular No. 1, second revision, Division of Entomology. Condensed Information Concerning Some of the More Important Insecticides.

Circular No. 20, Division of Entomology. The Woolly Aphis of the Apple.

Circular No. 56, Bureau of Entomology. The Most Important Step in the Cultural System of Controlling the Boll Weevil.

Circular No. 57, Bureau of Entomology. The Greenhouse White Fly.

Circular No. 71, Bureau of Entomology. House Flies.

Circular No. 23, Forest Service. Suggestions to Prospective Forest Students.

Circular No. 25, Bureau of Forestry. Forestry and the Lumber Supply.

Circular No. 66, Office of Experiment Stations. Publications of the Office of Experiment Stations Issued during 1905 and Station Publications Received by the Office of Experiment Stations during 1905.

Crop Reporter, Vol. I, No. 8, December, 1899.

FARMERS' BULLETINS—NEW.

Preparation of Vegetables for the Table. By Maria Parloa. Prepared under the supervision of the Office of Experiment Stations. Pp. 48. (Farmers' Bulletin No. 256.)

Suggestions and directions for the selection of vegetables for the table, recipes for their preparation, statements of comparative nutritive value, etc.

Soil Fertility. An Address Delivered before the Rich Neck Farmers' Club, of Queen Anne County, Maryland. By Milton Whitney, Chief of the Bureau of Soils. Pp. 40, figs. 2. (Farmers' Bulletin No. 257.)

A discussion of plant requirements, maintenance of moisture and fertility in soil, value of fertilizers, use of lime, etc., with an appendix presenting the wire-basket method for soil testing.

Texas or Tick Fever and Its Prevention. By John R. Mohler, Chief of Pathological Division, Bureau of Animal Industry. Pp. 46, figs. 6. (Farmers' Bulletin No. 258.)

History, cause, and treatment of Texas fever, methods for prevention, and directions for the immunization of susceptible cattle.

Experiment Station Work—XXXV. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32, figs. 3. (Farmers' Bulletin No. 259.)

CONTENTS: Use of commercial fertilizers—Weight of lime per bushel—Spreading lime—Soil sterilization—Weights per bushel of seeds—Disease-resistant crops—Corn billbugs and root-louse—Asparagus rust and its control—Alfalfa meal as a feeding stuff—Singed cacti as forage—Cattle feeding in the South—Milk fever—Nail wounds in horses' feet—Use of a cheap canning outfit.

FARMERS' BULLETINS—REPRINTS.

No. 64.—Ducks and Geese. (Revised.) Pp. 56, figs. 32.

No. 127.—Important Insecticides. Pp. 46, figs. 6.

No. 242.—An Example of Model Farming. Pp. 16, figs. 5.

No. 248.—The Lawn. Pp. 20, figs. 5.

SEPARATE—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1903.

Wheat Flour and Bread. By Harry Snyder, Professor of Chemistry, College of Agriculture, University of Minnesota, and Charles D. Woods, Director, Maine Agricultural Experiment Station. Pp. iii, 347-362. (Extract No. 324.)

SEPARATES—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1905.

Renovated Butter: Its Origin and History. By Levi Wells, Inspector, Dairy Division, Bureau of Animal Industry. Pp. ii, 393-398. (Extract No. 390.)

Causes Affecting Farm Values. By George K. Holmes, Chief of Division of Foreign Markets, Bureau of Statistics. Pp. ii, 511-532. (Extract No. 400.)

Federal Game Protection: A Five Years' Retrospect. By T. S. Palmer, Assistant in Charge of Game Preservation, Biological Survey. Pp. ii, 541-562, pl. 1, figs. 13. (Extract No. 402.)

SEPARATE—ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS, 1904.

Dietetics in Relation to Hospitals for the Insane. By W. O. Atwater, Chief of Nutrition Investigations. Pp. iii, 473-492. (O. E. S. Doc. 800.)

SEPARATE—OFFICE OF EXPERIMENT STATIONS BULLETIN NO. 158.

Annual Report of Irrigation and Drainage Investigations, 1904, under the direction of Elwood Mead, Chief of Irrigation and Drainage Investigations. Separate No. 3: The Distribution and Use of Water in Modesto and Turlock Irrigation Districts, California. By Frank Adams, Irrigation Engineer. Relation of Irrigation to Yield, Size, Quality, and Commercial Suitability of Fruits. By E. J. Wickson, Professor of Agricultural Practice in the University of California. Irrigation Conditions in Imperial Valley, California. By J. E. Roadhouse, Agent and Expert in California Investigations. Pp. iv, 93-194, pls. 4, figs. 5. (Separate No. 3.)

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.]

Monthly Weather Review. Vol. XXXIV, No. 3, March, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 109-156, charts I-VII. (W. B. No. 353.) Price 20 cents; \$2.50 per year.

Meteorological Chart of the Great Lakes. No. 1, 1906. By Alfred J. Henry and Norman B. Conger. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1-20. (W. B. No. 356.) Price 10 cents.

Charts of the Weather Bureau—

National Monthly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. (Issued each Monday in June, Nos. 12, 13, 14, and 15.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

Approved:

JAMES WILSON,

Secretary of Agriculture.

GEO. WM. HILL,

Editor and Chief.

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This circular will be sent regularly to all who apply for it.

No. 540.

United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *July 31, 1906.*

MONTHLY LIST OF PUBLICATIONS. [JULY, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1904.

Soil Survey of the Bear River Area, Utah. By Charles A. Jensen and A. T. Strahorn. Pp. 33, fig. 1, maps 3.

Soil Survey of the Orangeburg Area, South Carolina. By Frank Bennett and A. M. Griffen. Pp. 25, fig. 1, map 1.

Soil Survey of Saline County, Missouri. By M. Earl Carr and H. L. Belden. Pp. 28, fig. 1, map 1.

Soil Survey of Appomattox County, Virginia. By Thomas A. Caine and Hugh H. Bennett. Pp. 22, fig. 1, map 1.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of Leon County, Florida. By Henry J. Wilder, J. A. Drake, Grove B. Jones, and W. J. Geib. Pp. 30, fig. 1, map 1.

Soil Survey of the Carlton Area, Minnesota-Wisconsin. By W. J. Geib and Grove B. Jones. Pp. 25, fig. 1, map 1.

REPORT—REPRINT.

Report of the Forester for 1905. (From Annual Reports, Dept. of Agriculture.)

BULLETINS—NEW.

Index-Catalogue of Medical and Veterinary Zoology. Part 14. (Authors: L to Léger.) By Ch. Wardell Stiles, Consulting Zoologist of Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. ii, 951-1044. (Bulletin No. 39, Part 14, Bureau of Animal Industry.) Price 10 cents.

The Cold Storage of Cheese. (Experiments of 1903-4.) By Clarence B. Lane, Assistant Chief of the Dairy Division, Bureau of Animal Industry. Pp. 26, pls. 6, figs. 4. (Bulletin No. 83, Bureau of Animal Industry.) Price 10 cents.

Investigations in the Manufacture and Curing of Cheese. VI.—The Cold Curing of American Cheese, with a Digest of Previous Work on the Subject. By C. F. Doane, Expert in Dairying, Dairy Division, Bureau of Animal Industry. Pp. 68. (Bulletin No. 85, Bureau of Animal Industry.) Price 10 cents.

Proceedings of the Twenty-Second Annual Convention of the Association of Official Agricultural Chemists, Held at Washington, D. C., November 16, 17, and 18, 1905. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 211, figs. 2. (Bulletin No. 99, Bureau of Chemistry.) Price 20 cents.

Irrigation in the North Atlantic States. By Aug. J. Bowie, jr., Agent and Expert. Pp. 50, figs. 7. (Bul. No. 167, Office of Expt. Stations.) Price 10 cents.

Report on Agricultural Investigations in Hawaii, 1905. By Jared G. Smith, Special Agent in Charge, Hawaii Agricultural Experiment Station. Pp. 66, pls. 4. (Bulletin No. 170, Office of Experiment Stations.) Price 15 cents.

Report on Agricultural Investigations in Porto Rico, 1905. By D. W. May, Special Agent in Charge, Porto Rico Agricultural Experiment Station. Pp. 47, pls. 7. (Bulletin No. 171, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Vol. XVII, No. 10, June, 1906. E. W. Allen, Ph. D., Editor. Pp. ix, 929-1028. (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has fixed the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Vegetable Growing in Porto Rico. By H. C. Henricksen, Horticulturist, Porto Rico Experiment Station. Pp. 58, pls. 10, figs. 2. (Bulletin No. 7, Porto Rico Agricultural Experiment Station, under the Supervision of Office of Experiment Stations.) Price 15 cents.

Calcium Sulphate in Aqueous Solutions: A Contribution to the Study of Alkali Deposits. By Frank K. Cameron and James M. Bell. Pp. 71, figs. 11. (Bulletin No. 33, Bureau of Soils.) Price 10 cents.

BULLETINS—REPRINTS.

Bulletin No. 78, Bureau of Animal Industry. Texas Fever (Otherwise Known as Tick Fever, Splenetic Fever, or Southern Cattle Fever), with Methods for Its Prevention. Price 10 cents.

Bulletin No. 45 (Revised Edition), Office of Experiment Stations. A Digest of Metabolism Experiments in Which the Balance of Income and Outgo was Determined. Price 25 cents, paper.

Bulletin No. 136, Office of Experiment Stations. Experiments on the Metabolism of Matter and Energy in the Human Body, 1900–1902. (Corrected August 10, 1904.) Price 30 cents.

Bulletin No. 28, Division of Forestry. A Short Account of the Big Trees of California. Price 15 cents.

Bulletin No. 46, Bureau of Forestry. The Basket Willow. Price 15 cents.

Bulletin No. 89, Bureau of Plant Industry. Wild Medicinal Plants of the United States. Price 5 cents.

CIRCULARS—NEW.

Officials Charged with the Enforcement of Food Laws in the United States and Canada. (Revised to April 1, 1906.) Pp. 29. (Circular No. 16, Revised, Bureau of Chemistry.)

Changes in Official Methods of Analysis and Additions thereto, 1899 to 1905. Pp. 28. (Circular No. 30, Bureau of Chemistry.)

The Cotton Red Spider (*Tetranychus gloveri* Bks.). By E. S. G. Titus, Special Field Agent. Pp. 5. (Circular No. 65, Bureau of Entomology.)

Requirements to be Complied with by Nurserymen or Others Who Make Interstate Shipments of Nursery Stock. By A. F. Burgess, Secretary of the American Association of Horticultural Inspectors. Pp. 6. (Circular No. 75, Bureau of Entomology.)

Irrigation from Snake River, Idaho. By H. G. Raschbacher, Irrigation Engineer. Pp. 16, fig. 1. (Circular No. 65, Office of Experiment Stations.)

Investigations of Irrigation Practice in Oregon. By A. P. Stover, Irrigation Engineer. Pp. 30, figs. 4. (Circular No. 67, Office of Experiment Stations.)

Monthly List of Publications, June, 1906. Pp. 4. (Doc. 538, Div. of Publications.)

Public Roads of Maine: Mileage and Expenditures in 1904. Pp. 2. (Circular No. 51, Office of Public Roads.)

Crop Reporter, Vol. 8, No. 3, July, 1906. Published by the U. S. Department of Agriculture under the Supervision of the Assistant Secretary. Pp. 17–24.

A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

Circular No. 95, Bureau of Animal Industry. The Fecundity of Poland China and Duroc Jersey Sows.

Circular No. 3, Second Series, Division of Entomology. An Important Enemy to Fruit Trees.

Circular No. 4, Second Series, Division of Entomology. The Army Worm.

Circular No. 10, Second Series, Division of Entomology. The Harlequin Cabbage Bug, or Calico Back.

Circular No. 15, Second Series, Division of Entomology. General Work against Insects Which Defoliate Shade Trees in Cities and Towns.

Circular No. 25, Second Series, Division of Entomology. The Ox Warble.

Circular No. 43, Second Series, Division of Entomology. The Destructive Green Pea Louse.

Circular No. 60, Bureau of Entomology. The Imported Cabbage Worm.

Circular No. 18, Bureau of Soils. The Wire-Basket Method for Determining the Manurial Requirements of Soils.

Crop Reporter, Vol. 2, No. 8, December, 1900.

FARMERS' BULLETIN—NEW.

Cucumbers. By L. C. Corbett, Horticulturist, in Charge of Arlington Experimental Farm, Bureau of Plant Industry. Pp. 32, figs. 14. (Farmers' Bulletin No. 254.)

Instructions for growing the cucumber for market and pickling purposes, with directions for forcing and for preventive treatment for blight and mildew, and suggestions for protection from insect enemies.

FARMERS' BULLETINS—REPRINTS.

- No. 41.—Fowls: Care and Feeding. Pp. 24, figs. 4.
 No. 51.—Standard Varieties of Chickens. Pp. 48, figs. 42.
 No. 55.—The Dairy Herd. Pp. 30.
 No. 100.—Hog Raising in the South. Pp. 40.
 No. 113.—The Apple and How to Grow It. Pp. 32, figs. 10.
 No. 141.—Poultry Raising on the Farm. Pp. 16, figs. 31.
 No. 156.—The Home Vineyard. Pp. 24, figs. 15.
 No. 161.—Practical Suggestions for Fruit Growers. Pp. 30, figs. 8.
 No. 173.—A Primer of Forestry. Pp. 48, figs. 33.
 No. 185.—Beautifying the Home Grounds. Pp. 24, figs. 8.
 No. 187.—Drainage of Farm Lands. Pp. 40, figs. 19.
 No. 188.—Weeds Used in Medicine. Pp. 46, figs. 31.
 No. 198.—Strawberries. Pp. 24, figs. 15.
 No. 202.—Experiment Station Work—XXVI. Pp. 32, figs. 9.
 No. 203.—Canned Fruit, Preserves, and Jellies. Pp. 32, figs. 5.
 No. 220.—Tomatoes. Pp. 32, figs. 13.
 No. 235.—Cement Mortar and Concrete. Pp. 32, figs. 14.
 No. 241.—Butter Making on the Farm. Pp. 32.
 No. 255.—The Home Vegetable Garden. Pp. 48, figs. 34.
 No. 256.—Preparation of Vegetables for the Table. Pp. 48.
 No. 257.—Soil Fertility. Pp. 40, figs. 2.

SEPARATE—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1903.

The Relation of Forests to Stream Flow. By James W. Toumey, Collaborator, Bureau of Forestry. Pp. iii, 279–288. (Extract No. 329.)

SEPARATES—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1905.

- The Gypsy and Browntail Moths and Their European Parasites. By L. O. Howard, Chief of the Bureau of Entomology. Pp. iii, 123–138, pls. 2, figs. 8. (Extract No. 373.)
 How Parasites are Transmitted. By B. H. Ransom, in Charge of Zoological Lab., Bureau of Animal Industry. Pp. iv, 139–166, figs. 50. (Extract No. 374.)
 Some Ways in Which the Department of Agriculture and the Experiment Stations Supplement Each Other. By E. W. Allen, Assistant Director of the Office of Experiment Stations. Pp. iii, 167–182. (Extract No. 375.)
 How to Grow Young Trees for Forest Planting. By E. A. Sterling, Assistant Forester, in Charge of Forest Extension, Forest Service. Pp. ii, 183–192, pl. 1, fig. 1. (Extract No. 376.)
 Diversified Farming in the Cotton Belt. I. South Atlantic Coast. By W. J. Spillman, Agriculturist, Bureau of Plant Industry. II. Alabama and Mississippi. By M. A. Crosby, Assistant Agriculturist, Bureau of Plant Industry. III. Louisiana, Arkansas, and Northeastern Texas. By D. A. Brodie, Assistant Agriculturist, Bureau of Plant Industry. IV. Texas. By C. W. Warburton, Assistant Agriculturist, Bureau of Plant Industry. Pp. iv, 192–218, pls. 3. (Extract No. 377.)
 Dark Fire-Cured Tobacco of Virginia and the Possibilities for Its Improvement. By George T. McNess and E. H. Mathewson, Tobacco Experts, Bureau of Soils. Pp. iii, 219–230, pls. 4, fig. 1. (Extract No. 378.)
 Extension of the River and Flood Service of the Weather Bureau. By H. C. Frankenfield, Professor of Meteorology, Weather Bureau. Pp. ii, 231–240, pl. 1. (Extract No. 379.)
 Table Sirups. By H. W. Wiley, Chief of the Bureau of Chemistry. Pp. iii, 241–248, pls. 2. (Extract No. 380.)
 Insect Enemies of Forest Reproduction. By A. D. Hopkins, in Charge of Forest Insect Investigations, Bureau of Entomology. Pp. iii, 249–256, figs. 9. (Extract No. 381.)
 The Use of Illustrative Material in Teaching Agriculture in Rural Schools. By Dick J. Crosby, of the Office of Experiment Stations. Pp. ii, 257–274, pls. 3, figs. 10. (Extract No. 382.)
 New Fruit Productions of the Department of Agriculture. By Herbert J. Weber, Physiologist, in Charge of Plant Breeding Investigations, Bureau of Plant Industry. Pp. iii, 275–290, pls. 7, fig. 1. (Extract No. 383.)
 The Business of Seed and Plant Introduction and Distribution. By A. J. Pieters, Botanist, in Charge of Seed and Plant Introduction and Distribution, Bureau of Plant Industry. Pp. iii, 291–306, pls. 3. (Extract No. 384.)
 Fruit and Its Uses as Food. By C. F. Langworthy, of the Office of Experiment Stations. Pp. ii, 307–324, fig. 1. (Extract No. 385.)
 The Principal Insect Enemies of the Peach. By A. L. Quaintance, in Charge of Deciduous-Fruit Investigations, Bureau of Entomology. Pp. v, 325–348, pls. 7, figs. 7. (Extract No. 386.)
 The Handling of Fruit for Transportation. By G. Harold Powell, Pomologist, in Charge of Fruit Transportation and Storage Investigations, Bureau of Plant Industry. Pp. ii, 349–362, pls. 4. (Extract No. 387.)

- Meadow Mice in Relation to Agriculture and Horticulture. By D. E. Lantz, Asst. Biologist, Biological Survey. Pp. ii, 363-376, pls. 4, fig. 1. (Extract No. 388.)
- The Effect of Inbreeding in Plants. By A. D. Shamel, Physiologist in Charge of Tobacco Breeding, Bureau of Plant Industry. Pp. iii, 377-392, pls. 3, figs. 2. (Extract No. 389.)
- Ostrich Farming in Arizona. By Watson Pickrell. Pp. iii, 399-406, pls. 3. (Extract No. 391.)
- Illustrations of the Influence of Experiment Station Work on Culture of Field Crops. By J. I. Schulte, of the Office of Experiment Stations. Pp. iii, 407-422, fig. 1. (Extract No. 392.)
- The Relation of Irrigation to Dry Farming. By Elwood Mead, Chief of Irrigation and Drainage Investigations. Pp. iv, 423-438, pls. 2, figs. 10. (Extract No. 393.)
- New Opportunities in Subtropical Fruit Growing. By P. H. Rolfs, Pathologist in Charge of the Subtropical Laboratory, Bureau of Plant Industry. Pp. iii, 439-454, pls. 3, figs. 4. (Extract No. 394.)
- Prolonging the Life of Telephone Poles. By Henry Grinnell, Assistant Forest Inspector, Forest Service. Pp. ii, 455-464, pl. 1, figs. 4. (Extract No. 395.)
- Farm Practice in the Control of Field-Crop Insects. By F. M. Webster, in Charge of Cereal and Forage-plant Investigations, Bureau of Entomology. Pp. iii, 465-476, pls. 2, figs. 2. (Extract No. 396.)
- Formaldehyde: Its Composition and Uses. By Bernard H. Smith, of the Bureau of Chemistry. Pp. ii, 477-482. (Extract No. 397.)
- Waste in Logging Southern Yellow Pine. By J. Girvin Peters, Forest Assistant, Forest Service. Pp. iii, 483-494, pls. 2. (Extract No. 398.)
- Promising New Fruits. By William A. Taylor, Pomologist in Charge of Field Investigations, Bureau of Plant Industry. Pp. iii, 495-510, pls. 9. (Extract No. 399.)
- Progress in Drug-Plant Cultivation. By Rodney H. True, Physiologist in Charge of Drug-plant Investigations, Bureau of Plant Industry. Pp. iii, 533-540, pls. 3. (Extract No. 401.)
- Game Protection in 1905. By T. S. Palmer, Assistant in Charge of Game Preservation, Biological Survey. Pp. iii, 611-617. (Extract No. 403.)
- Statistical Matter Relating to Principal Crops and Farm Animals, Freight Rates, Exports, etc., of the United States, 1905. Pp. 656-782. (Extract No. 404.)

SEPARATE—ANNUAL REPORT OF THE OFFICE OF EXPERIMENT STATIONS, 1902.

- Dietary Studies of Groups, Especially in Public Institutions. By C. F. Langworthy, Food and Nutrition Expert. Pp. iii, 387-416. (Doc. No. 566.)

SEPARATE—BULLETIN NO. 158, OFFICE OF EXPERIMENT STATIONS.

- Annual Report of Irrigation and Drainage Investigations, 1904, under the Direction of Elwood Mead, Chief of Irrigation and Drainage Investigations. Separate No. 9: Report of Drainage Investigations, 1904. By C. G. Elliott, Engineer in Charge of Drainage Investigations. Pp. v, 643-743. (Doc. No. 845.)

SEPARATE—BULLETIN NO. 99, BUREAU OF CHEMISTRY.

- Report on Insecticides, Fungicides, and Disinfectants, also the Deterioration of Bleaching Powder. By Bernard H. Smith. Pp. 26-35.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.]

- Report of the Chief of the Weather Bureau, 1904-1905. Pp. xxiv, 384.
- Studies on the Diurnal Periods in the Lower Strata of the Atmosphere. Reprints from the Monthly Weather Review, February, March, April, May, July, and August, 1905. By Frank Hagar Bigelow, Professor of Meteorology. Prepared under the Direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. iii, 51, tables 11, figs. 71. (W. B. No. 344.)
- Charts of the Weather Bureau—
National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. (Issued each Monday in July. Nos. 16, 17, 18, 19, and 20.)
Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATION NOT AVAILABLE FOR DISTRIBUTION.

- Experiment Station Work, Vol. II, No. 15. Compiled from the publications of the Agricultural Experiment Stations. Pp. iv, 393-420, figs. 3. (Doc. No. 905.)

Approved:

JAMES WILSON, *Secretary of Agriculture.*

GEO. WM. HILL,

Editor and Chief.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., August 31, 1906.

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1906.] ✓

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1904.

Soil Survey of the Sacramento Area, California. By Macy H. Lapham, Aldert S. Root, and W. W. Mackie. Pp. 43, fig. 1, map 1.

Soil Survey of the Greeley Area, Colorado. By J. Garnett Holmes and N. P. Neill. Pp. 47, fig. 1, map 1.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of Henderson County, Tennessee. By M. Earl Carr and Frank Bennett. Pp. 19, fig. 1, map 1.

Soil Survey of Perquimans and Pasquotank Counties, North Carolina. By J. E. Lapham and W. S. Lyman. Pp. 22, fig. 1, map 1.

Soil Survey of Brown County, Kansas. By James L. Burgess, W. E. Tharp, and W. S. Lyman. Pp. 20, fig. 1, map 1.

Soil Survey of Newton County, Indiana. By N. P. Neill and W. E. Tharp. Pp. 37, fig. 1, map 1.

Soil Survey of York County, South Carolina. By J. A. Drake and H. L. Belden. Pp. 28, fig. 1, map 1.

REPORT—NEW.

Field Operations of the Bureau of Soils, 1904 (sixth report). By Milton Whitney, Chief. With accompanying papers by assistants in charge of field parties. Pp. 1159, pl. 1, figs. 45, maps 53 (in pocket). (Sixth Report, Field Operations, Bureau of Soils.) Price upon application to Superintendent of Documents.

REPORT—REPRINT.

Report No. 82. Progress of the Beet-Sugar Industry in the United States in 1905. Price 15 cents.

BULLETINS—NEW.

Index-Catalogue of Medical and Veterinary Zoology. Part 15. (Authors: Legg to van der Linden.) By Ch. Wardell Stiles, Consulting Zoologist of Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. ii, 1045–1116. (Bulletin No. 39, Part 15, Bureau of Animal Industry.) Price 10 cents.

Foods and Food Control. Revised to July 1, 1905. IX. Indexed Digest of Food Legislation. By W. D. Bigelow, Chief, Division of Foods, with the collaboration of C. H. Greathouse, Assistant in Charge of Indexing, Division of Publications. Pp. vi, 705–778. (Bulletin No. 69, revised, Part IX, Bureau of Chemistry.) Price 10 cents.

Miscellaneous Papers. Habits and Life Histories of Some Flies of the Family Tabanidæ. By James S. Hine, of the Ohio State University, Columbus, Ohio. Pp. iii, 19–38, figs. 12. (Bulletin No. 12, Part II, Technical Series, Bureau of Entomology.) Price 10 cents.

Some Insects Injurious to Forests. The Western Pine-destroying Bark-beetle. By J. L. Webb, Special Field Agent, Forest Insect Investigations. Pp. vi, 17-30, pls. 2, figs. 6. (Bulletin No. 58, Part II, Bureau of Entomology.) Price 10 cents.

Proliferation as a Factor in the Natural Control of the Mexican Cotton Boll Weevil. By W. E. Hinds, in Charge of Cotton Boll Weevil Laboratory. Pp. 45, pls. 6. (Bulletin No. 59, Bureau of Entomology.) Price 15 cents.

The State Engineer in His Relation to Irrigation. By R. P. Teele, Expert in Irrigation Institutions. Pp. 99, fig. 1. (Bulletin No. 168, Office of Experiment Stations.) Price 15 cents.

Report on Agricultural Investigations in Alaska, 1905. By C. C. Georgeson, Special Agent in Charge of Alaska Experiment Stations. Pp. 100, pls. 8, fig. 1. (Bulletin No. 169, Office of Experiment Stations.) Price 20 cents.

Experiment Station Record, Vol. XVII, No. 11, July, 1906. E. W. Allen, Ph. D., Editor. Pp. x, 1029-1128. (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has fixed the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Sugar Pine and Western Yellow Pine in California. By Albert W. Cooper, Forest Inspector, Forest Service. Pp. 42, pls. 4. (Bulletin No. 69, Forest Service.) Price 10 cents.

Accessions to the Department Library. April-June, 1906. Pp. 64. (Bulletin No. 60, Library.) Price 10 cents.

Farm Practice with Forage Crops in Western Oregon and Western Washington. By Byron Hunter, Assistant Agriculturist, Farm Management Investigations. Pp. 39, figs. 4. (Bulletin No. 94, Bureau of Plant Industry.) Price 10 cents.

Changes in Farm Values, 1900-1905. By George K. Holmes, Chief, Division of Foreign Markets. Pp. 46. (Bulletin No. 43, Bureau of Statistics.) Price 10 cents.

BULLETIN—REPRINT.

Bulletin No. 31, Bureau of Forestry. Notes on the Red Cedar. Price 10 cents.

CIRCULARS—NEW.

Standards of Purity for Food Products. (Superseding Circulars Nos. 13 and 17.) Supplemental Proclamation. Pp. 19. (Circular No. 19, Office of the Secretary.)

Adulteration of Alfalfa Seed. By B. T. Galloway, Chief, Bureau of Plant Industry. Pp. 2. (Circular No. 20, Office of the Secretary.)

Actinomycosis, or Lumpy Jaw. By D. E. Salmon and Theobald Smith. (Revised by John R. Mohler.) Pp. 10. (Circular No. 96, Bureau of Animal Industry.)

How to Get Rid of Cattle Ticks. Pp. 4, fig. 1. (Circular No. 97, Bureau of Animal Industry.)

Directory of Officials and Organizations Concerned with the Protection of Birds and Game, 1906. Pp. 16. (Circular No. 53, Bureau of Biological Survey.)

List of Station Publications Received by the Office of Experiment Stations during May and June, 1906. Pp. 11. (Doc. No. 908, Office of Experiment Stations.)

Practical Assistance to Farmers, Lumbermen, and Others in Handling Forest Lands. By Gifford Pinchot, Forester. Pp. 4. (Circular No. 21, 4th revision, Forest Service.)

Experiments on the Strength of Treated Timber. By Kendrick Hatt, Civil Engineer, Forest Service. Pp. 31, figs. 2. (Circular No. 39, Forest Service.)

Monthly List of Publications, July, 1906. Pp. 4. (Doc. No. 540, Division of Publications.)

Crop Reporter, Vol. 8, No. 4, August, 1906. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 25-32.

A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

- Circular No. 84, Bureau of Animal Industry. Enzymes in Cornstalks and Their Relation to Cornstalk Disease.
- Circular No. 97, Bureau of Animal Industry. How to Get Rid of Cattle Ticks.
- Circular No. 15, Bureau of Chemistry. Results of Borax Experiment.
- Circular No. 5, second series, Division of Entomology. The Carpet Beetle, or "Buffalo Moth."
- Circular No. 34, second series, Division of Entomology. House Ants.
- Circular No. 46, second series, Division of Entomology. Hydrocyanic-acid Gas against Household Insects.
- Circular No. 48, second series, Division of Entomology. The House Centipede.
- Circular No. 55, Division of Entomology. Powder-post Injury to Seasoned Wood Products.
- Circular No. 74, Bureau of Entomology. The Periodical Cicada in 1906.
- Circular No. 34, Bureau of Forestry. Practical Results of the Cup and Gutter System of Turpentineing.
- Circular No. 58, Office of Experiment Stations. Irrigation in the Valley of Lost River, Idaho.

FARMERS' BULLETINS—NEW.

The Cattle Tick in Its Relation to Southern Agriculture. By August Mayer, Shreveport, La. Pp. 24. (Farmers' Bulletin No. 261.)

This bulletin describes the effect of the tick on cattle, its injury to the cattle industry in the South, the necessity for its eradication, and the benefits that would follow.

Experiment Station Work—XXXVI. Compiled from the publications of the agricultural experiment stations. Pp. 32, figs. 2. (Farmers' Bulletin No. 262.)

CONTENTS: Water for table use—Phosphates—Winter wheat—Glutenous and starchy wheats—Dry farming—Methods of canning—Beet molasses and pulp—Feed lots—Guinea fowls—Color of eggs—Spraying for scale and insects—White pine in New England.

Game Laws for 1906. By T. S. Palmer and R. W. Williams, jr., Assistants, Biological Survey. Pp. 56, figs. 4. (Farmers' Bulletin No. 265.)

A summary of the provisions relating to seasons, shipment, sale, and licenses.

FARMERS' BULLETINS—REPRINTS.

- No. 22.—The Feeding of Farm Animals. Pp. 40.
- No. 24.—Hog Cholera and Swine Plague. Pp. 16.
- No. 28.—Weeds; and How to Kill Them. Pp. 32, figs. 11.
- No. 34.—Meats: Composition and Cooking. Pp. 32, figs. 4.
- No. 35.—Potato Culture. Pp. 24, figs. 2.
- No. 36.—Cotton Seed and Its Products. Pp. 16.
- No. 42.—Facts about Milk, revised. Pp. 32, figs. 8.
- No. 44.—Commercial Fertilizers. Pp. 38.
- No. 54.—Some Common Birds. Pp. 48, figs. 22.
- No. 61.—Asparagus Culture. Pp. 40, figs. 17.
- No. 62.—Marketing Farm Produce. Pp. 32, figs. 7.
- No. 65.—Experiment Station Work—II. Pp. 32, figs. 7.
- No. 66.—Meadows and Pastures. Pp. 30, figs. 9.
- No. 82.—The Culture of Tobacco. Pp. 24.
- No. 84.—Experiment Station Work—VII. Pp. 32, figs. 8.
- No. 91.—Potato Diseases and Their Treatment. Pp. 16, figs. 4.
- No. 93.—Sugar as Food. Pp. 27.
- No. 95.—Good Roads for Farmers. Pp. 48, figs. 49.
- No. 98.—Suggestions to Southern Farmers. Pp. 48.
- No. 102.—Southern Forage Plants. Pp. 48, figs. 14.
- No. 106.—Breeds of Dairy Cattle. Pp. 48, figs. 21.
- No. 107.—Experiment Station Work—XIII. Pp. 32, figs. 3.
- No. 114.—Experiment Station Work—XIV. Pp. 29, figs. 5.
- No. 126.—Practical Suggestions for Farm Buildings. Pp. 48, figs. 28.
- No. 128.—Eggs and Their Uses as Food. Pp. 38.
- No. 132.—The Principal Insect Enemies of Growing Wheat. Pp. 40, figs. 25.
- No. 135.—Sorghum Sirup Manufacture. Pp. 40, figs. 26.
- No. 138.—Irrigation in Field and Garden. Pp. 40, figs. 18.
- No. 154.—The Home Fruit Garden. Pp. 16, figs. 6.
- No. 158.—How to Build Small Irrigation Ditches. Pp. 29, figs. 9.

- No. 162.—Experiment Station Work—XXI. Pp. 32, figs. 3.
 No. 166.—Cheese Making on the Farm. Pp. 16, figs. 3.
 No. 170.—Principles of Horse Feeding. Pp. 44.
 No. 175.—Home Manufacture and Use of Unfermented Grape Juice. Pp. 16, figs. 8.
 No. 190.—Experiment Station Work—XXIV. Pp. 32, figs. 14.
 No. 192.—Barnyard Manure. Pp. 32, figs. 4.
 No. 194.—Alfalfa Seed. Pp. 14, figs. 8.
 No. 195.—Annual Flowering Plants. Pp. 48, figs. 55.
 No. 199.—Corn Growing. Pp. 32, figs. 23.
 No. 205.—Pig Management. Pp. 40.
 No. 206.—Milk Fever. Pp. 16, figs. 2.
 No. 208.—Varieties of Fruit Recommended for Planting. Pp. 48, fig. 1.
 No. 210.—Experiment Station Work—XXVII. Pp. 32, figs. 7.
 No. 213.—Raspberries. Pp. 38, figs. 25.
 No. 224.—Canadian Field Peas. Pp. 16, figs. 4.
 No. 225.—Experiment Station Work—XXIX. Pp. 32, figs. 6.
 No. 229.—The Production of Good Seed Corn. Pp. 24, figs. 10.
 No. 230.—Game Laws for 1905. Pp. 56, figs. 6.
 No. 231.—Spraying for Cucumber and Melon Diseases. Pp. 24, figs. 8.
 No. 239.—The Corrosion of Fence Wire. Pp. 32.
 No. 242.—An Example of Model Farming. Pp. 16, figs. 5.
 No. 243.—Fungicides. Pp. 32, figs. 17.
 No. 244.—Experiment Station Work—XXXIII. Pp. 32, figs. 6.
 No. 245.—Renovation of Worn-out Soils. Pp. 16.
 No. 247.—The Control of the Codling Moth and Apple Scab. Pp. 24, figs. 9.
 No. 248.—The Lawn. Pp. 20, figs. 5.
 No. 250.—The Prevention of Stinking Smut of Wheat and Loose Smut of Oats. Pp. 16, figs. 7.
 No. 251.—Experiment Station Work—XXXIV. Pp. 32, fig. 1.
 No. 253.—The Germination of Seed Corn. Pp. 16, figs. 4.

SEPARATES—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1905.

- Federal Game Protection: A Five Years' Retrospect. By T. S. Palmer, Assistant in Charge of Game Preservation, Biological Survey. Pp. ii, 541-562, pl. 1, figs. 13. (Separate No. 402.)
 A Directory for Farmers (Corrected to April 1, 1906), with Weather Conditions, Crop Injuries, etc., for 1905. Pp. ii, 563-655, pls. 3, figs. 5. (Separate No. 405.)
 Progress of Road Legislation and Road Improvement in the Different States. Prepared in the Office of Public Roads. Pp. 624-627. (Separate No. 407.)
 The Principal Injurious Insects of 1905. Prepared in the Bureau of Entomology. Pp. 628-636. (Separate No. 408.)
 Plant Diseases in 1905. By W. A. Orton, Plant Pathologist, Bureau of Plant Industry. Pp. 602-611. (Separate No. 409.)

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.]

Cold Waves and Frosts in the United States. By Edward B. Garriott, Professor of Meteorology. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 22, charts 328. (Bulletin P, Weather Bureau. W. B. No. 355.) Price 30 cents.

Monthly Weather Review. Vol. XXXIV, No. 4, April, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 157-200, charts 7, pls. 2. (W. B. No. 354.) Price 20 cents; \$2.50 per year.

Charts of the Weather Bureau—

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions, by sections, throughout the United States. (Issued each Monday in August, Nos. 21, 22, 23, and 24.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

Approved:

JAMES WILSON, *Secretary of Agriculture.*

GEO. WM. HILL,
Editor and Chief

1 P96M

This circular will be sent regularly to all who apply for it.
No. 546.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *September 29, 1906.*

MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of Upshur County, West Virginia. By A. M. Griffen and Orla L. Ayrs. Pp. 20, fig. 1, map 1.

Soil Survey of Louisa County, Virginia. By Hugh H. Bennett and W. E. McLen-don. Pp. 26, fig. 1, map 1.

Soil Survey of McCracken County, Kentucky. By Thomas D. Rice. Pp. 20, fig. 1, map 1.

Soil Survey of the Oxford Area, Michigan. By Grove B. Jones and M. Earl Carr. Pp. 19, fig. 1, map 1.

BULLETINS—NEW.

Index-Catalogue of Medical and Veterinary Zoology. Part 16. (Authors: von Linden to Lyutkevich.) By Ch. Wardell Stiles, Consulting Zoologist, Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. ii, 1117–1208. (Bulletin No. 39, Part 16, Bureau of Animal Industry.) Price 10 cents.

The Tuberculin Test of Hogs and Some Methods of Their Infection with Tuberculosis. By E. C. Schroeder, Superintendent of Experiment Station, Bureau of Animal Industry, and John R. Mohler, Chief of Pathological Division, Bureau of Animal Industry. Pp. 51. (Bulletin No. 88, Bureau of Animal Industry.) Price 10 cents.

Distribution and Migration of North American Ducks, Geese, and Swans. By Wells W. Cooke, Assistant, Biological Survey. Pp. 90. (Bulletin No. 26, Biological Survey.) Price 10 cents.

Drug Legislation in the United States. By Lyman F. Kebler, Chief, Drug Laboratory, with the collaboration of Earl T. Ragan, Scientific Assistant. Pp. 217. (Bulletin No. 98, Bureau of Chemistry.) Price 25 cents.

Proceedings of the Eighteenth Annual Meeting of the Association of Economic Entomologists. Pp. 206, pls. 3, figs. 10. (Bulletin No. 60, Bureau of Entomology.) Price 20 cents.

Irrigation in Montana. By Samuel Fortier, assisted by A. P. Stover and J. S. Baker. Pp. 108, figs. 18. (Bulletin No. 172, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XVII, No. 12, August, 1906. E. W. Allen, Ph. D., Editor. Pp. viii, 1129-1227. (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has fixed the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Date Varieties and Date Culture in Tunis. By Thomas H. Kearney, Physiologist, Plant Breeding Investigations. Pp. 112, pls. 10, figs. 52. (Bulletin No. 92, Bureau of Plant Industry.) Price 25 cents.

A New Type of Red Clover. By Charles J. Brand, Assistant Physiologist, Laboratory of Plant Life History. Pp. 48, pls. 3, figs. 2. (Bulletin No. 95, Bureau of Plant Industry.) Price 10 cents.

The Construction of Sand-clay and Burnt-clay Roads. By William L. Spoon, Road Expert, Office of Public Roads. Pp. 19, pls. 4, figs. 5. (Bulletin No. 27, Office of Public Roads.) Price 10 cents.

Alkali Soils of the United States. A Review of Literature and Summary of Present Information. By Clarence W. Dorsey. Pp. 196, figs. 13. (Bulletin No. 35, Bureau of Soils.) Price 25 cents.

Local Conditions as Affecting Farm Values, 1900-1905. By George K. Holmes, Chief of Division of Foreign Markets. Pp. 88. (Bulletin No. 44, Bureau of Statistics.) Price 10 cents.

Imports of Farm and Forest Products, 1903-1905, by Countries from which Consigned. Compiled by the Division of Foreign Markets. Pp. 62. (Bulletin No. 45, Bureau of Statistics.) Price 10 cents.

Exports of Farm and Forest Products, 1903-1905, by Countries to which Consigned. Compiled by the Division of Foreign Markets. Pp. 72. (Bulletin No. 46, Bureau of Statistics.) Price 10 cents.

Trade with Noncontiguous Possessions in Farm and Forest Products, 1903-1905. Compiled by the Division of Foreign Markets. Pp. 45. (Bulletin No. 47, Bureau of Statistics.) Price 10 cents.

BULLETINS—REPRINTS.

Bulletin No. 75, Bureau of Animal Industry. Records of Dairy Cows in the United States. Price 15 cents.

North American Fauna No. 25. Biological Survey of Texas. Price 50 cents.

Bulletin No. 58, revised edition, Bureau of Forestry (Forest Service). The Red Gum. Price 5 cents.

Bulletin No. 67, Forest Service. Forest Reserves in Idaho. Price 10 cents.

CIRCULARS—NEW.

List of Publications of the Bureau of Entomology. Compiled by Mabel Colcord, Librarian. Pp. 21. (Circular No. 76, Bureau of Entomology.)

The Utilization of Tupelo. By H. B. Holroyd, Forest Assistant, Forest Service. Pp. 16, figs. 4. (Circular No. 40, Forest Service.)

Forest Planting on Coal Lands in Western Pennsylvania. By S. N. Spring, Forest Assistant, Forest Service. Pp. 16. (Circular No. 41, Forest Service.)

Monthly List of Publications, August, 1906. Pp. 4. (Doc. No. 543, Division of Publications.)

Public Roads of New Mexico: Mileage and Expenditures in 1904. Pp. 2. (Circular No. 52, Office of Public Roads.)

Crop Reporter, Vol. 8, No. 5, September, 1906. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 33-40.

A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

Circular No. 64, Bureau of Animal Industry. A New Nematode (*Gongylonema ingluvicola*) Parasitic in the Crop of Chickens.

- Circular No. 93, Bureau of Animal Industry. The Life History of the Twisted Wireworm (*Hæmonchus contortus*) of Sheep and Other Ruminants.
- Circular No. 28, Bureau of Chemistry. Provisional Methods for the Determination of Food Preservatives as Authorized by the Association of Official Agricultural Chemists, 1905.
- Circular No. 29, Bureau of Chemistry. Changes in Provisional Methods for the Analysis of Foods and Additions Thereto, from 1902 to 1905.
- Circular No. 71, revised edition, Bureau of Entomology. House Flies.
- Circular No. 23, third revision, Forest Service. Suggestions to Prospective Forest Students.
- Circular No. 35, Forest Service. Forest Preservation and National Prosperity.
- Circular No. 36, second edition, Forest Service. The Forest Service: What It is and How It Deals with Forest Problems.

FARMERS' BULLETINS—REPRINTS.

- No. 39.—Onion Culture. Pp. 32, figs. 3.
- No. 55.—The Dairy Herd: Its Formation and Management. Pp. 30.
- No. 56.—Experiment Station Work—I. Pp. 32, figs. 10.
- No. 58.—The Soy Bean as a Forage Crop. Pp. 24, figs. 5.
- No. 60.—Methods of Curing Tobacco. Second revised edition. Pp. 24.
- No. 64.—Ducks and Geese. Revised. Pp. 56, figs. 32.
- No. 74.—Milk as Food. Pp. 40, charts 2.
- No. 77.—The Liming of Soils. Revised. Pp. 24.
- No. 81.—Corn Culture in the South. Pp. 24.
- No. 109.—Farmers' Reading Courses. Pp. 20.
- No. 111.—The Farmer's Interest in Good Seed. Pp. 24, figs. 7.
- No. 121.—Beans, Peas, and Other Legumes as Food. Revised. Pp. 40, figs. 10.
- No. 129.—Sweet Potatoes. Pp. 40.
- No. 143.—Conformation of Beef and Dairy Cattle. Pp. 46, figs. 44.
- No. 144.—Experiment Station Work—XIX. Pp. 32, figs. 9.
- No. 147.—Winter Forage Crops for the South. Pp. 40, figs. 24.
- No. 148.—Celery Culture. Pp. 32, figs. 7.
- No. 151.—Dairying in the South. Pp. 48, figs. 4.
- No. 152.—Scabies of Cattle. Pp. 32, figs. 17.
- No. 159.—Scab in Sheep. Pp. 46, figs. 17.
- No. 165.—Silkworm Culture. Pp. 32, figs. 15.
- No. 169.—Experiment Station Work—XXII. Pp. 32, figs. 6.
- No. 179.—Horseshoeing. Pp. 40, figs. 18.
- No. 181.—Pruning. Pp. 40, figs. 25.
- No. 182.—Poultry as Food. Pp. 40.
- No. 184.—Marketing Live Stock. Pp. 40.
- No. 186.—Experiment Station Work—XXIII. Pp. 32, figs. 9.
- No. 200.—Turkeys: Varieties and Management. Pp. 40, figs. 12.
- No. 204.—The Cultivation of Mushrooms. Pp. 24, figs. 10.
- No. 209.—Controlling the Boll Weevil in Cotton Seed and at Ginneries. Pp. 32, fig. 1.
- No. 216.—The Control of the Boll Weevil. Pp. 32, figs. 5.
- No. 218.—The School Garden. Pp. 40, figs. 33.
- No. 222.—Experiment Station Work—XXVIII. Pp. 32, fig. 1.
- No. 228.—Forest Planting and Farm Management. Pp. 22, figs. 3.
- No. 237.—Experiment Station Work—XXXII. Pp. 32, figs. 6.

SEPARATE—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1905.

- Progress of Forestry in 1905. By Quincy R. Craft, Editorial Clerk, Forest Service. Pp. 636–644, figs. 2. (Separate No. 406.)

SEPARATE—OFFICE OF EXPERIMENT STATIONS BULLETIN NO. 158.

Irrigation in Southern Texas. By Aug. J. Bowie, jr., Agent and Expert in Pumping Investigations. Pp. iv, 347-507, pls. 3, figs. 19. (Separate No. 6.)

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.]

Monthly Weather Review. Vol. XXXIV, No. 5, May, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 201-253, figs. 13, charts 15. (W. B. No. 357.) Price 20 cents; \$2.50 per year.

Charts of the Weather Bureau—

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions, by sections, thruout the United States. (Issued each Monday in September, Nos. 25, 26, 27, and 28.)

Daily Weather Map, showing weather conditions thruout the United States and giving forecasts of probable changes.

PUBLICATION NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Work, Vol. II, No. 16. Pp. iv, 421-448, figs. 2. (Office of Experiment Stations.)

Approved:

JAMES WILSON, *Secretary of Agriculture.*

GEO. WM. HILL,
Editor and Chief.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS. U. S. Department of Agriculture

WASHINGTON, D. C., October 31, 1906.

MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of the Carrington Area, North Dakota. By A. E. Kocher and Lewis A. Hurst. Pp. 26, fig. 1, maps 2.

Soil Survey of the Gallatin Valley, Montana. By Macy H. Lapham and Charles W. Ely. Pp. 26, fig. 1, map 1.

REPORT—NEW.

Annual Report of the Office of Experiment Stations for the Year ended June 30, 1905. Pp. 413, pls. 11. Price, 50 cents.

BULLETINS—NEW.

Tuberculosis of the Food-producing Animals. By D. E. Salmon. Pp. 99, pls. 9. (Bulletin No. 38, Bureau of Animal Industry.) Price, 40 cents.

Market Milk Investigations. II. The Milk and Cream Exhibit at the National Dairy Show, 1906. By Clarence B. Lane, Assistant Chief of Dairy Division, Bureau of Animal Industry. Pp. 21, pls. 4. (Bulletin No. 87, Bureau of Animal Industry.) Price, 10 cents.

Investigations in the Manufacture and Storage of Butter. II. Preventing Molds in Butter Tubs. By L. A. Rogers, Bacteriological Chemist, Dairy Division, Bureau of Animal Industry. Pp. 13, fig. 1. (Bulletin No. 89, Bureau of Animal Industry.) Price, 5 cents.

Poultry Investigations at the Maine Agricultural Experiment Station. By Charles D. Woods, Director, Maine Agricultural Experiment Station, and Gilbert M. Gowell, in charge of Poultry Investigations, Maine Agricultural Experiment Station. Pp. 42, pls. 5, figs. 2. (Bulletin No. 90, Bureau of Animal Industry.) Price, 15 cents.

Feeding Prickly Pear to Stock in Texas. By David Griffiths, Assistant in Charge of Range and Cactus Investigations, Farm Management Investigations, Bureau of Plant Industry. Pp. 23, pls. 3, fig. 1. (Bulletin No. 91, Bureau of Animal Industry.) Price, 10 cents.

The North American Eagles and Their Economic Relations. By Harry C. Oberholser, Assistant Ornithologist, Biological Survey. Pp. 31, pls. 2, figs. 2. (Bulletin No. 27, Biological Survey.) Price, 10 cents.

Experiment Station Record, Vol. XVII, Subject Index. E. W. Allen, Ph. D., Editor. Pp. xx, 1229-1317. (No single copies of Vol. XVII sold.)

Experiment Station Record, Vol. XVIII, No. 1, September, 1906. E. W. Allen, Ph. D., Editor. Pp. x, 1-100, fig. 1. (No single copies of Vol. XVIII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

The Drug Known as Pinkroot. By W. W. Stockberger, Expert, Drug-plant Investigations. Pp. 8, pls. 2, figs. 2. (Bulletin No. 100, Part V, Bureau of Plant Industry.) Price, 5 cents.

Orchard Grass. By R. A. Oakley, Assistant Agriculturist, Farm Management Investigations. Pp. 16, pl. 1. (Bulletin No. 100, Part VI, Bureau of Plant Industry.) Price, 5 cents.

- The Effect of Copper upon Water Bacteria. By Karl F. Kellerman, Physiologist in Charge of Soil Bacteriology and Water Purification Investigations, and T. D. Beckwith, Scientific Assistant. Pp. 19. (Bulletin No. 100, Part VII, Bureau of Plant Industry.) Price, 5 cents.
- Russia's Wheat Surplus; Conditions under which it is Produced. By I. M. Rubinow, Economic Expert, Division of Foreign Markets. Pp. 103, pls. 4, fig. 1. (Bulletin No. 42, Bureau of Statistics.) Price, 20 cents.

BULLETIN—REPRINT.

- Bulletin No. 8, Division of Vegetable Physiology and Pathology. The Principal Diseases of Citrous Fruits in Florida. Price, 10 cents.

CIRCULARS—NEW.

- Rules and Regulations for the Enforcement of the Food and Drugs Act. Pp. 20. (Circular No. 21, Office of the Secretary.)
- Some Unusual Host Relations of the Texas Fever Tick. By B. H. Ransom, Chief of the Zoological Division, Bureau of Animal Industry. Pp. 8. (Circular No. 98, Bureau of Animal Industry.)
- Officials, Associations, and Educational Institutions Connected with the Dairy Interests of the United States for the Year 1906. Pp. 14. (Circular No. 99, Bureau of Animal Industry.)
- Regulations Governing the Meat Inspection of the United States Department of Agriculture. (Not Including Regulations for Microscopic Inspection of Pork or Regulations Affecting Transportation of Meat in Interstate or Foreign Trade.) Issued under authority conferred on the Secretary of Agriculture by the act of Congress approved June 30, 1906. Pp. 32. (Order No. 137, Bureau of Animal Industry.)
- Regulations Governing the Examination and Relabeling of Meats and Meat Food Products on Hand. Pp. 3. (Amendment No. 1 to B. A. I. Order No. 137.)
- Regulations Governing the Transportation of Meat in Interstate and Foreign Commerce. Pp. 6. (Amendment No. 2 to B. A. I. Order No. 137.)
- Regulations Governing the Interstate and Foreign Transportation of Meats and Meat Food Products Prepared with Preservatives prior to October 1, 1906, and Amending Regulation No. 45, Governing the Transportation to a Foreign Country of Meats and Meat Food Products. Pp. 2. (Amendment No. 3 to B. A. I. Order No. 137.)
- Amending Regulations 22, 23, 24, and 25, Governing the Labeling of Carcasses in Establishments where Inspection is Maintained; Amending Regulation 41, Governing Entrance of Unmarked Fats into Establishments where Inspection is Maintained; and Amending Regulation 50, Governing the Examination and Relabeling of Meats and Meat Food Products on Hand. (Amendment No. 4 to B. A. I. Order No. 137.)
- Instructions concerning Trade Labels under the Meat-Inspection Law and Regulations. Pp. 6. (Bureau of Animal Industry, no number.)
- Statistics for Hunting Licenses. Compiled by T. S. Palmer, in Charge of Game Preservation, Bureau of Biological Survey. Pp. 24, figs. 6. (Circular No. 54, Bureau of Biological Survey.)
- General Results of the Investigations Showing the Effect of Salicylic Acid and Salicylates Upon Digestion and Health. By H. W. Wiley, Chief, Bureau of Chemistry. Pp. 12, fig. 1. (Circular No. 31, Bureau of Chemistry.)
- Harvest Mites or "Chiggers." By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 6, figs. 3. (Circular No. 77, Bureau of Entomology.)
- The Brood Diseases of Bees. By E. F. Phillips, Apicultural Expert. Pp. 5. (Circular No. 79, Bureau of Entomology.)
- List of Station Publications Received by the Office of Experiment Stations during July and August, 1906. Pp. 10. (Doc. 915, Office of Experiment Stations.)
- Instructions to Engineers of Timber Tests. By W. Kendrick Hatt, Civil Engineer, Forest Service. Pp. 55, figs. 9. (Circular No. 38, Forest Service.)
- Consumption of Tanbark in 1905. By H. M. Hale, Forest Assistant. Pp. 4. (Circular No. 42, Forest Service.)
- Cross-ties Purchased by the Steam Railroads of the United States in 1905. By H. M. Hale, Forest Assistant. Pp. 6. (Circular No. 43, Forest Service.)
- Wood Used for Pulp in 1905. By H. M. Hale, Forest Assistant, Forest Service. Pp. 11. (Circular No. 44, Forest Service.)
- Monthly List of Publications, September, 1906. Pp. 4. (Doc. 546, Division of Publications.)

- Public Roads of Pennsylvania: Mileage and Expenditures in 1904. By Maurice O. Eldredge. Pp. 4. (Circular No. 53, Office of Public Roads.)
- Public Roads of Montana: Mileage and Expenditures in 1904. By Maurice O. Eldredge. Pp. 2. (Circular No. 54, Office of Public Roads.)
- Public Roads of Wyoming: Mileage and Expenditures in 1904. By Maurice O. Eldredge. Pp. 2. (Circular No. 55, Office of Public Roads.)
- Public Roads of North Dakota: Mileage and Expenditures in 1904. By Maurice O. Eldredge. Pp. 2. (Circular No. 56, Office of Public Roads.)
- Public Roads of South Dakota: Mileage and Expenditures in 1904. By Maurice O. Eldredge. Pp. 3. (Circular No. 57, Office of Public Roads.)
- Crop Reporter, Vol. 8, No. 6, October, 1906. Published by the U. S. Department of Agriculture under the Supervision of the Statistician. Pp. 41-48.
- A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

- Circular No. 21, Office of the Secretary. Rules and Regulations for the Enforcement of the Food and Drugs Act.
- Circular No. 23, second revision, Bureau of Animal Industry. Directions for the Use of Blackleg Vaccine.
- Circular No. 96, Bureau of Animal Industry. Actinomycosis, or Lumpy Jaw.
- Circular No. 97, Bureau of Animal Industry. How to Get Rid of Cattle Ticks.
- Bulletin No. 12, Division of Forestry. Southern Pine—Mechanical and Physical Properties.
- Circular No. 36, second edition, Forest Service. The Forest Service: What It is and How It Deals with Forest Problems.
- Document No. 247, Division of Publications. List of Bulletins and Circulars issued by the U. S. Department of Agriculture and Available for Free Distribution in the United States.
- Circular No. 43, Office of Public Roads. Public Roads of Iowa: Mileage and Expenditures in 1904.
- Circular No. 45, Office of Public Roads. Public Roads of North Carolina: Mileage and Expenditures in 1904.

FARMERS' BULLETINS—NEW.

- Seed of Red Clover and Its Impurities. By Edgar Brown, Botanist in Charge of Seed Laboratory, and F. H. Hillman, Assistant Botanist, Seed Laboratory, Bureau of Plant Industry. Pp. 24, figs. 39. (Farmers' Bulletin No. 260.)

Description of the Red Clover plant and seed, with illustrations and descriptions of the weed seeds with which it is usually adulterated. The purpose of this Bulletin is to emphasize the importance of the use of good seed, and is designed to supersede Farmers' Bulletin No. 123, on the same subject.

- Practical Information for Beginners in Irrigation. By S. Fortier, Irrigation Engineer. Pp. 40, figs. 25. (Farmers' Bulletin No. 263.)

This Bulletin discusses the preparation of land for irrigation, the construction and location of farm ditches, methods of irrigation for several crops, and the management and economy of the water supply.

- The Brown-tail Moth and How to Control It. By L. O. Howard, Entomologist. Pp. 24, figs. 10. (Farmers' Bulletin No. 264.)

Description, life history, and habits of the Brown-tail moth (*Euproctis chrysorrhæa*), with suggestions for its control. The Bulletin also contains a summary of the Massachusetts law for the suppression of the gipsy and brown-tail moths.

FARMERS' BULLETINS—REPRINTS.

- No. 25.—Peanuts: Culture and Uses. Pp. 24, fig. 1.
- No. 29.—Souring of Milk. Pp. 24.
- No. 32.—Silos and Silage, Revised. Pp. 32, figs. 6.
- No. 37.—Kafir Corn. Pp. 16, fig. 1.
- No. 46.—Irrigation in Humid Climates. Pp. 27, figs. 4.
- No. 49.—Sheep Feeding. Pp. 24.
- No. 52.—The Sugar Beet. Pp. 48, figs. 24.
- No. 59.—Bee Keeping. Pp. 48, figs. 19.
- No. 70.—The Principal Insect Enemies of the Grape. Pp. 24, figs. 12.
- No. 71.—Some Essentials in Beef Production. Pp. 24, figs. 17.
- No. 86.—Thirty Poisonous Plants of the United States. Pp. 32, figs. 24.
- No. 91.—Potato Diseases and Their Treatment. Pp. 16, figs. 4.
- No. 95.—Good Roads for Farmers. Pp. 48, figs. 49.
- No. 99.—Three Insect Enemies of Shade Trees. Pp. 32, figs. 11.
- No. 104.—Notes on Frost. Pp. 24.
- No. 120.—The Principal Insects Affecting the Tobacco Plant. Pp. 32, figs. 25.

- No. 122.—Experiment Station Work—XVI. Pp. 32, figs. 5.
 No. 124.—Experiment Station Work—XVII. Pp. 32, figs. 6.
 No. 131.—Household Tests for the Detection of Oleomargarine and Renovated Butter. Pp. 12.
 No. 136.—Earth Roads. Pp. 24, figs. 20.
 No. 140.—Pineapple Growing. Pp. 48, figs. 4.
 No. 142.—Principles of Nutrition and Nutritive Value of Food. Revised. Pp. 48, charts 2.
 No. 146.—Insecticides and Fungicides. Pp. 16.
 No. 150.—Clearing New Land. Pp. 24, figs. 7.
 No. 155.—How Insects Affect Health in Rural Districts. Pp. 2, figs. 16.
 No. 157.—The Propagation of Plants. Pp. 24, figs. 22.
 No. 177.—Squab Raising. Revised. Pp. 32, figs. 11.
 No. 183.—Meat on the Farm. Pp. 38, figs. 35.
 No. 196.—Usefulness of the American Toad. Pp. 16.
 No. 215.—Alfalfa Growing. Pp. 40, figs. 8.
 No. 217.—Essential Steps in Securing an Early Crop of Cotton. Pp. 16.
 No. 227.—Experiment Station Work, XXX. Pp. 32, figs. 2.
 No. 229.—The Production of Good Seed Corn. Pp. 24, figs. 10.
 No. 233.—Experiment Station Work, XXXI. Pp. 32, figs. 5.
 No. 249.—Cereal Breakfast Foods. Pp. 37.
 No. 250.—The Prevention of Stinking Smut of Wheat and Loose Smut of Oats. Pp. 16, figs. 7.
 No. 256.—Preparation of Vegetables for the Table. Pp. 48.

SEPARATES—YEARBOOK, DEPARTMENT OF AGRICULTURE, 1905.

- How to Grow Young Trees for Forest Planting. By E. A. Sterling, Assistant Forester, in Charge of Forest Extension, Forest Service. Pp. ii, 183–192. (Sep. No. 376.)
 Table Sirups. By H. W. Wiley, Chief of the Bureau of Chemistry. Pp. iii, 241–248, pls. 2. (Sep. No. 380.)
 The Handling of Fruit for Transportation. By G. Harold Powell, Pomologist in Charge of Fruit Transportation and Storage Investigations, Bureau of Plant Industry. Pp. ii, 349–362, pls. 4. (Sep. No. 387.)
 Renovated Butter: Its Origin and History. By Levi Wells, Inspector, Dairy Division, Bureau of Animal Industry. Pp. ii, 393–398. (Sep. No. 390.)
 Formaldehyde: Its Composition and Uses. By Bernard H. Smith, of the Bureau of Chemistry. Pp. ii, 477–482. (Sep. No. 397.)

SEPARATE—EXPERIMENT STATION RECORD, VOL. XVII, NO. 10.

- A Conception of Agricultural Research. Pp. 929–933. (O. E. S. Doc. 916.)

SEPARATES—BULLETIN NO. 60, BUREAU OF ENTOMOLOGY.

- Report of Committee on Nomenclature. Pp. 25–27.
 The Corn Root-aphis and Its Attendant Ant. By S. A. Forbes. Pp. 29–39.
 National Control of Introduced Insect Pests. By E. Dwight Sanderson. Pp. 95–104.
 Sulphur Dioxide as an Insecticide. By C. L. Marlatt. Pp. 139–153.
 Some Observations on the Spined Soldier Bug. (*Podisus Maculiventris* Say.) By A. W. Morrill. Pp. 155–161, fig. 1.

PUBLICATIONS OF THE WEATHER BUREAU.

- [For publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.]
 Monthly Weather Review. Vol. XXXIV, No. 7, July, 1906. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 307–356, figs. 15, charts 8. (W. B. No. 359.) Price, 20 cents; \$2.50 per year.

Charts of the Weather Bureau—

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections thruout the United States. (Issued in October, No. 29.)

Daily Weather Map, showing weather conditions thruout the United States and giving forecasts of probable changes.

GEO. WM. HILL,
Editor and Chief.

Approved:
 JAMES WILSON, *Secretary of Agriculture.*

This circular will be sent regularly to all who apply for it.

No. 552.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., November 30, 1906.

MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of Island County, Washington. By E. P. Carr and A. W. Mangum. Pp. 23, fig. 1, map.

BULLETINS—NEW.

Revision of the Skunks of the Genus *Spilogale*. By Arthur H. Howell, Assistant Biologist, Biological Survey. Prepared under the direction of Dr. C. Hart Merriam, Chief, Bureau of Biological Survey. Pp. 55, pls. 10. (North American Fauna No. 26, Biological Survey.) Price 25 cents.

Influence of Food Preservatives and Artificial Colors on Digestion and Health. II. Salicylic Acid and Salicylates. By H. W. Wiley, with the collaboration of W. D. Bigelow, Chief of the Division of Foods, F. C. Weber, and others. Pp. v, 479–760. (Bulletin No. 84, Part II, Bureau of Chemistry. Price 30 cents.

Experimental Work in the Production of Table Sirup at Waycross, Ga., 1905, together with a Summary of the Four-year Experiment on Fertilization of Sugar Cane. By H. W. Wiley, Chief of the Bureau of Chemistry, with the collaboration of W. B. Roddenberry, G. R. Youmans, and Arthur Given, of the Bureau of Chemistry. Pp. 38. (Bulletin No. 103, Bureau of Chemistry.) Price 10 cents.

The Laws in Force against Injurious Insects and Foul Brood in the United States. Compiled by L. O. Howard, Entomologist and Chief of Bureau, and A. F. Burgess, secretary of the American Association of Horticultural Inspectors. Pp. 222. (Bulletin No. 61, Bureau of Entomology.) Price 25 cents.

A Revision of the Tyroglyphidae of the United States. By Nathan Banks, Assistant Entomologist. Pp. 34, pls. 6. (Technical Series No. 13, Bureau of Entomology.) Price 10 cents.

The Bacteria of the Apiary, with Special Reference to Bee Diseases. By Gershom Franklin White, Expert in Animal Bacteriology, Biochemic Division, Bureau of Animal Industry. Pp. 50. (Technical Series No. 14, Bureau of Entomology.) Price 10 cents.

Experiment Station Record, Vol. XVIII, No. 2, October, 1906. E. W. Allen, Ph. D., Editor. Pp. viii, 101–200. (No single copies of Vol. XVIII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Accessions to the Department Library. July–September, 1906. Pp. 61. (Bulletin No. 61, Library.) Price 10 cents.

Conditions Affecting Legume Inoculation. By Karl F. Kellerman, Physiologist in Charge of Soil Bacteriology and Water Purification Investigations, and T. R. Robinson, Assistant Physiologist. Pp. 15, pls. 2. (Bulletin No. 100, Part VIII, Bureau of Plant Industry.) Price 10 cents.

BULLETINS—REPRINTS.

- Bulletin No. 121, Office of Experiment Stations. Experiments on the Metabolism of Nitrogen, Sulphur, and Phosphorus in the Human Organism. Price 5 cents.
- Bulletin No. 162, Office of Experiment Stations. Studies on the Influence of Cooking upon the Nutritive Value of Meats at the University of Illinois, 1903-1904. Price 20 cents.
- Bulletin No. 17, Division of Forestry. Check List of the Forest Trees of the United States, Their Names and Ranges. Price 15 cents.
- Bulletin No. 31, Bureau of Soils. Colorimetric, Turbidity, and Titration Methods Used in Soil Investigations. Price 5 cents.
- Bulletin No. 33, Bureau of Soils. Calcium Sulphate in Aqueous Solutions: A Contribution to the Study of Alkali Deposits. Price 10 cents.

CIRCULARS—NEW.

- Regulations Governing the Interstate Transportation of Inspected and Past Meats and Meat-food Products Which are Alleged to be or Have become Unfit for Food, and Restricting Their Admission into Establishments where Inspection is Maintained. Pp. 4. (Amendment No. 5 to B. A. I. Order No. 137.)
- Regulations Governing the Use of Dyes, Chemicals, and Preservatives. Pp. 2. (Amendment No. 6 to B. A. I. Order No. 137.)
- Purity of Food Products. Tentative Draft Submitted as a Basis for Suggestion, November 19, 1906. (Prepared by the Committee on Food Standards, Association of Official Agricultural Chemists.) Pp. 7. (Bureau of Chemistry, no number.)
- The Melon Aphis (*Aphis gossypii* Glov.). By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 16, figs. 6. (Circular No. 80, Bureau of Entomology.)
- List of State Directors of Farmers' Institutes and Farmers' Institute Lecturers of the United States. By John Hamilton, Farmers' Institute Specialist. Pp. 32. (Circular 51, Revised, Office of Experiment Stations.)
- Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. Pp. 21. (Circular No. 68, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on Irrigation and Drainage. (Corrected to November 1, 1906.) Pp. 11. (Doc. No. 917, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on Agricultural Education. (Corrected to November 1, 1906.) Pp. 10. (Doc. No. 933, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on the Food and Nutrition of Man. (Corrected to November 1, 1906.) Pp. 14. (Doc. No. 938, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during September and October, 1906. Pp. 7. (Doc. No. 940, Office of Experiment Stations.)
- Wood Used for Distillation in 1905. By H. M. Hale, Forest Assistant. Pp. 3. (Circular No. 50, Forest Service.)
- Wood Used for Veneer in 1905. By H. M. Hale, Forest Assistant. Pp. 4. (Circular No. 51, Forest Service.)
- Monthly List of Publications, October, 1906. Pp. 4. (Doc. No. 547, Division of Publications.)
- Public Roads of Kentucky: Mileage and Expenditures in 1904. By Maurice O. Eldridge. Pp. 4. (Circular No. 58, Office of Public Roads.)
- Public Roads of Florida: Mileage and Expenditures in 1904. By Maurice O. Eldridge. Pp. 3. (Circular No. 59, Office of Public Roads.)
- Public Roads of South Carolina: Mileage and Expenditures in 1904. By Maurice O. Eldridge. Pp. 4. (Circular No. 60, Office of Public Roads.)
- Public Roads of Nevada: Mileage and Expenditures in 1904. By Maurice O. Eldridge. Pp. 2. (Circular No. 62, Office of Public Roads.)
- Public Roads of Kansas: Mileage and Expenditures in 1904. By Maurice O. Eldridge. Pp. 4. (Circular No. 63, Office of Public Roads.)
- Public Roads of Idaho: Mileage and Expenditures in 1904. By Maurice O. Eldridge. Pp. 2. (Circular No. 64, Office of Public Roads.)
- Crop Reporter, Vol. 8, No. 7, November, 1906. Published by the United States Department of Agriculture under the supervision of the Statistician. Pp. 49-56.
A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

- Circular No. 84, Bureau of Animal Industry. Enzymes in Cornstalks and Their Relation to Cornstalk Disease.
- Circular No. 95, Bureau of Animal Industry. The Fecundity of Poland China and Duroc Jersey Sows.
- Circular No. 13, Second Series, Division of Entomology. Mosquitoes and Fleas.
- Circular No. 19, Second Series (2d ed.), Division of Entomology. The Clover Mite.
- Circular No. 39, Office of Public Roads. Public Roads of the State of Washington: Mileage and Expenditures in 1904.
- Circular No. 47, Office of Public Roads. Tar and Oil for Road Improvement: Report of Progress of Experiments at Jackson, Tenn.

FARMERS' BULLETINS—NEW.

- Management of Soils to Conserve Moisture, with Special Reference to Semiarid Conditions. By George H. Failyer, of the Bureau of Soils. Pp. 32, figs. 7. (Farmers' Bulletin No. 266.)

Directions for the cultivation and management of different soils, drainage of wet lands, preparation of seed beds, etc., with suggestions as to crops suitable for semiarid regions.

Experiment Station Work, XXXVII. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32, fig. 1. (Farmers' Bulletin No. 267.)

CONTENTS: Breeding corn—Buckwheat—Sugar beets on alkali soils—Alfalfa as a forage plant—Apple bitter rot—Grass mulch for orchards—Hardiness of young fruit trees—Protecting cows from flies—Effect of silage on milk—Cold storage of cheese.

Industrial Alcohol: Sources and Manufacture. By H. W. Wiley, Chief, Bureau of Chemistry. Pp. 47, figs. 10. (Farmers' Bulletin No. 268.)

This bulletin is issued in response to the numerous inquiries sent to this Department regarding the manufacture of industrial or denatured alcohol, and contains the Federal law relating to its manufacture and use, the sources from which it may be obtained, and methods of manufacture.

Industrial Alcohol: Uses and Statistics. By H. W. Wiley, Chief, Bureau of Chemistry. Pp. 32, figs. 10. (Farmers' Bulletin No. 269.)

This bulletin gives a number of uses of industrial or denatured alcohol, especially those of direct interest to the farmer; also statistics on its production in the United States, Great Britain, France, and Germany. It is designed to supplement Farmers' Bulletin No. 268.

Modern Conveniences for the Farm Home. By Elmina T. Wilson, formerly Assistant Professor of Civil Engineering, Iowa State College. Prepared under the direction of the Office of Experiment Stations. Pp. 48, figs. 26. (Farmers' Bulletin No. 270.)

Suggestions and directions for installing in the farm home modern plumbing, heating plants, and lights, and for disposing of the wastes and sewage, with plans and illustrations of buildings and grounds.

FARMERS' BULLETINS—REPRINTS.

- No. 24.—Hog Cholera and Swine Plague. Pp. 16.
- No. 28.—Weeds, and How to Kill Them. Pp. 31, figs. 11.
- No. 34.—Meats: Composition and Cooking. Pp. 32, figs. 4.
- No. 62.—Marketing Farm Produce. Pp. 32, figs. 7.
- No. 68.—The Black Rot of the Cabbage. Pp. 22.
- No. 80.—The Peach Twig-borer. Pp. 16, figs. 5.
- No. 102.—Southern Forage Plants. Pp. 48, figs. 14.
- No. 110.—Rice Culture in the United States. Pp. 30.
- No. 112.—Bread and the Principles of Bread Making. Pp. 40, figs. 7.
- No. 116.—Irrigation in Fruit Growing. Pp. 48, figs. 8.
- No. 118.—Grape Growing in the South. Pp. 32, figs. 6.
- No. 119.—Experiment Station Work, XV. Pp. 32, figs. 5.
- No. 127.—Important Insecticides. Pp. 46, figs. 6.
- No. 134.—Tree Planting on Rural School Grounds. Pp. 32, figs. 17.
- No. 141.—Poultry Raising on the Farm. Pp. 16, figs. 31.
- No. 149.—Experiment Station Work, XX. Pp. 32, figs. 6.
- No. 161.—Practical Suggestions for Fruit Growers. Pp. 30, figs. 8.
- No. 168.—Pearl Millet. Pp. 16, figs. 3.
- No. 170.—Principles of Horse Feeding. Pp. 46.
- No. 203.—Canned Fruit, Preserves, and Jellies. Pp. 32, figs. 5.
- No. 216.—The Control of the Boll Weevil. Pp. 32, figs. 5.
- No. 246.—Saccharine Sorghum for Forage. Pp. 38, figs. 7.
- No. 255.—The Home Vegetable Garden. Pp. 48, figs. 34.
- No. 256.—Preparation of Vegetables for the Table. Pp. 48.
- No. 257.—Soil Fertility. Pp. 40, figs. 2.
- No. 260.—Seed of Red Clover and its Impurities. Pp. 24, figs. 39.

SEPARATES, YEARBOOK, DEPARTMENT OF AGRICULTURE.

- Insects Injurious to Beans and Peas.** By F. H. Chittenden, Assistant Entomologist. Pp. ii, 233–260, figs. 17. (Sep. No. 139, Yearbook 1898.)
- The Value of Potatoes as Food.** By C. F. Langworthy, Office of Experiment Stations. Pp. iii, 327–348, figs. 3. (Sep. No. 213, Yearbook 1900.)
- Fertilizers for Special Crops.** By A. F. Woods and R. E. B. McKenney, of the Bureau of Plant Industry. Pp. iii, 553–572. (Sep. No. 290, Yearbook 1902.)
- Opportunities in Agriculture.** I. Growing Crops Under Glass. By B. T. Galloway, Chief of the Bureau of Plant Industry. II. Fruit Growing. By M. B. Waite, Pathologist in Charge of Investigations of Diseases of Orchard Fruits, Bureau of Plant Industry. III. General Farming. By W. J. Spillman, Agrostologist, Bureau of Plant Industry. Pp. ii, 161–190, pls. 3. (Sep. No. 340, Yearbook 1904.)
- The Nut Weevils.** By F. H. Chittenden, in Charge of Breeding Experiments, Bureau of Entomology. Pp. iii, 299–310, pls. 3, figs. 10. (Sep. No. 348, Yearbook 1904.)
- Insect Injuries to Forest Products.** By A. D. Hopkins, in Charge of Forest Insect Investigations, Bureau of Entomology. Pp. ii, 381–398, figs. 14. (Sep. No. 355, Yearbook 1904.)
- The Determination of Timber Values.** By Edward A. Braniff, Forest Assistant, Bureau of Forestry. Pp. iii, 453–460. (Sep. No. 359, Yearbook 1904.)
- Boys' Agricultural Clubs.** By Dick J. Crosby, of the Office of Experiment Stations. Pp. v, 489–496, pls. 3. (Sep. No. 362, Yearbook 1904.)
- The Gypsy and Brown-tail Moths and Their European Parasites.** By L. O. Howard, Chief, Bureau of Entomology. Pp. iii, 123–138, pls. 2, figs. 8. (Sep. No. 373, Yearbook 1905.)
- Dark Fire-cured Tobacco of Virginia and the Possibilities for Its Improvement.** By George T. McNess and E. H. Mathewson, Tobacco Experts, Bureau of Soils. Pp. iii, 219–230, pls. 4, fig. 1. (Sep. No. 378, Yearbook 1905.)
- New Fruit Productions of the Department of Agriculture.** By Herbert J. Webber, Physiologist in Charge of Plant Breeding Investigations, Bureau of Plant Industry. Pp. iii, 275–290, pls. 7, fig. 1. (Sep. No. 383, Yearbook 1905.)

The Principal Insect Enemies of the Peach. By A. L. Quaintance, in Charge of Deciduous-fruit Investigations, Bureau of Entomology. Pp. v, 325-348, pls. 7, figs. 7. (Sep. No. 386, Yearbook 1905.)

Prolonging the Life of Telephone Poles. By Henry Grinnell, Assistant Forest Inspector, Forest Service. Pp. ii, 455-464, pl. 1, figs. 4. (Sep. No. 395, Yearbook 1905.)

Waste in Logging Southern Yellow Pine. By J. Girvin Peters, Forest Assistant, Forest Service. Pp. iii, 483-494, pls. 2. (Sep. No. 398, Yearbook 1905.)

Progress in Drug-plant Cultivation. By Rodney H. True, Physiologist in Charge of Drug-Plant Investigations, Bureau of Plant Industry. Pp. iii, 533-540, pls. 3. (Sep. No. 401, Yearbook 1905.)

SEPARATE, BULLETIN NO. 60, BUREAU OF ENTOMOLOGY.

The Scope and Status of Economic Entomology. By H. Garman. Pp. 5-23. (Bureau of Entomology.)

SEPARATE, BULLETIN NO. 61, BUREAU OF ENTOMOLOGY.

State and Territorial Laws Relative to Foul Brood. Pp. 184-200. (Bureau of Entomology.)

SEPARATES, ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS, 1905.

Summary of Annual Report and Work and Expenditures of the Agricultural Experiment Stations for the Year Ended June 30, 1905. Pp. v, 13-151, pls. 6. (Doc. No. 923, Office of Experiment Stations.)

Statistics of Land-grant Colleges and Agricultural Experiment Stations, 1905. Compiled by Miss M. T. Spethmann. Pp. iii, 153-186. (Doc. No. 924, Office of Experiment Stations.)

Drainage Investigations. By C. G. Elliott, Engineer in Charge of Drainage Investigations. Pp. 197-210. (Doc. No. 925, Office of Experiment Stations.)

The Evolution of Farm-implement Investigations. By C. G. Zintheo, in Charge of Farm-Machinery Investigations, Office of Experiment Stations. Pp. ii, 211-223. (Doc. No. 926, Office of Experiment Stations.)

Some Experiment Station Work Relating to the Food and Nutrition of Man. By R. D. Milner, Editorial Assistant, Nutrition Investigations, Office of Experiment Stations. Pp. ii, 225-237. (Doc. No. 927, Office of Experiment Stations.)

Some Results of Experiment Station Work with Insecticides. By E. V. Wilcox, Office of Experiment Stations. Pp. iii, 239-280. (Doc. No. 928, Office of Experiment Stations.)

Some Experiment Station Work Relating to the Production and Sale of Pure Milk. By H. W. Lawson, Office of Experiment Stations. Pp. ii, 281-301. (Doc. No. 929, Office of Experiment Stations.)

Progress in Agricultural Education, 1905. By A. C. True, Director of Office of Experiment Stations. Pp. ii, 303-357. (Doc. No. 930, Office of Experiment Stations.)

The Farmers' Institutes in the United States, 1905. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. iii, 359-413. (Doc. No. 931, Office of Experiment Stations.)

SEPARATE, EXPERIMENT STATION RECORD, VOL. XVIII, NO. 1.

The Individual as a Factor in Agricultural Research. Pp. 1-6. (Doc. No. 937, Office of Experiment Stations.)

PUBLICATIONS OF THE WEATHER BUREAU.

(For publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.)

Monthly Weather Review, Vol XXXIV, No. 8, August, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 357-404, figs. 9, charts 6. (W. B. No. 360.) Price 20 cents; \$2.50 per year.

Climatology of the United States. By Alfred Judson Henry, Professor of Meteorology. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1012, pls. 34. Bulletin Q. (W. B. No. 361.) Price \$10.

Charts of the Weather Bureau—

National Monthly Weather Bulletin for October, 1906, reporting temperature and rainfall, with a summary of weather conditions thruout the United States. (No. 30.)

Daily Weather Map, showing weather conditions thruout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Work, Vol. II, No. 17. Compiled from the publications of the Agricultural Experiment Stations. Pp. iv, 449-476. (Office of Experiment Stations.)

GEO. WM. HILL, *Editor and Chief.*

Approved: JAMES WILSON, *Secretary of Agriculture.*

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *December 31, 1906.*

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1906.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

- Soil Survey of Tippecanoe County, Indiana. By N. P. Neill and W. E. Tharp. Pp. 37, fig. 1, map.
Soil Survey of the Binghamton Area, New York. By Elmer O. Fippin and William T. Carter, jr. Pp. 30, fig. 1, map.

REPORTS—NEW.

- Report of the Secretary of Agriculture. 1906. Pp. 112.
Report of the Secretary of Agriculture. 1906. Pp. 94. (Report No. 83.)
Report of the Chief of the Division of Accounts and Disbursements for 1906. By A. Zappone. Pp. 36. (From Annual Reports, Department of Agriculture.)
Report of the Chief of the Bureau of Animal Industry for 1906. By A. D. Melvin. Pp. 56. (From Annual Reports, Department of Agriculture.)
Report of the Appointment Clerk for 1906. By J. B. Bennett. Pp. 35. (From Annual Reports, Department of Agriculture.)
Report of the Acting Chief of the Bureau of Biological Survey for 1906. By Henry W. Henshaw, Acting Chief. Pp. 24. (From Annual Reports, Department of Agriculture.)
Report on New Building Operations for 1906. By B. T. Galloway, chairman, Building Committee. Pp. 8. (From Annual Reports, Department of Agriculture.)
Report of the Chemist for 1906. By H. W. Wiley. Pp. 29. (From Annual Reports, Department of Agriculture.)
Report of the Entomologist for 1906. By L. O. Howard. Pp. 36. (From Annual Reports, Department of Agriculture.)
Report of the Director of the Office of Experiment Stations for 1906. By A. C. True. Pp. 63. (From Annual Reports, Department of Agriculture.)
Report of the Librarian for 1906. By Josephine A. Clark. Pp. 8. (From Annual Reports, Department of Agriculture.)
Report of the Director of the Office of Public Roads for 1906. By Logan Waller Page, Director. Pp. 27. (From Annual Reports, Department of Agriculture.)
Report of the Chief of the Bureau of Soils for 1906. By Milton Whitney. Pp. 31. (From Annual Reports, Department of Agriculture.)
Report of the Chief of the Bureau of Statistics for 1906. By Victor H. Olmsted. Pp. 15. (From Annual Reports, Department of Agriculture.)
Report of the Chief of the Weather Bureau for 1906. By Willis L. Moore. Pp. 23. (From Annual Reports, Department of Agriculture.)

BULLETINS—NEW.

- The Relation of Tuberculous Lesions to the Mode of Infection. By E. C. Schroeder, Superintendent of Experiment Station, Bureau of Animal Industry, and W. E. Cotton, Expert Assistant at Experiment Station, Bureau of Animal Industry. Pp. 19. (Bulletin 93, Bureau of Animal Industry.) Price 5 cents.
- Foreign Trade Practises in the Manufacture and Exportation of Alcoholic Beverages and Canned Goods. Summary of an Investigation made in Great Britain and Ireland, Germany, and France. By H. W. Wiley, Chief of the Bureau of Chemistry. Pp. 45, pls. 2, figs. 5. (Bulletin 102, Bureau of Chemistry.) Price 10 cents.
- Food Legislation during the Year ended June 30, 1906. By W. D. Bigelow, Chief, Division of Foods. Pp. 53. (Bulletin 104, Bureau of Chemistry.) Price 10 cents.
- The San Jose or Chinese Scale. By C. L. Marlatt, Entomologist and Acting Chief in Absence of Chief. Pp. 89, pls. 9, figs. 12. (Bulletin 62, Bureau of Entomology.) Price 25 cents.
- Effect of Moisture upon the Strength and Stiffness of Wood. By Harry Donald Tieman, Assistant Forest Inspector, Forest Service. Pp. 144, pls. 4, figs. 25. (Bulletin 70, Forest Service.) Price 15 cents.
- Rules and Specifications for the Grading of Lumber Adopted by the Various Lumber Manufacturing Associations of the United States. Compiled by E. R. Hodson, Forest Assistant, Forest Service. Pp. 127. (Bulletin 71, Forest Service.) Price 15 cents.
- History of Farmers' Institutes in the United States. Compiled by John Hamilton, Farmers' Institute Specialist. Pp. 96. (Bulletin 174, Office of Experiment Stations.) Price 15 cents.
- Experiment Station Record, Vol. XVIII, No. 3, November, 1906. E. W. Allen, Ph. D., Editor. Pp. viii, 201-300. (No single copies of Vol. XVIII sold.)
- Same: No. 4, December, 1906. Pp. ix, 301-400.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

- Experiments in Growing Cuban Seed Tobacco in Alabama. By George T. McNess and Lewis W. Ayer. Pp. 32, pls. 3. (Bulletin 37, Bureau of Soils.) Price 10 cents.
- The Cost of Producing Farm Products. Methods of Investigation. Cost of Growing Minnesota Field Crops, 1902, 1903, 1904. By Willet M. Hays and Edward C. Parker. Pp. 90, pls. 4, figs. 11. (Bulletin 48, Bureau of Statistics.) Price 15 cents.

BULLETINS—REPRINTS.

- Bulletin No. 68, Bureau of Animal Industry. Information concerning The Milch Goats. Price 15 cents.
- Bulletin No. 14, Technical Series, Bureau of Entomology. The Bacteria of the Apiary, with Special Reference to Bee Diseases. Price 10 cents.
- Bulletin No. 172 (Revised), Office of Experiment Stations. Irrigation in Montana. Price 15 cents.

CIRCULARS—NEW.

- Instructions concerning Trade Labels under the Meat-inspection Law and Regulations (Revised). Pp. 6. (Bureau of Animal Industry, no number.)
- The Slender Seed-corn Ground-beetle (*Clivina impressifrons* Lec.). By F. M. Webster, in Charge of Cereal and Forage-plant Insect Investigations. Pp. 6, fig. 2. (Circular No. 78, Bureau of Entomology.)
- Rules and Apparatus for Seed Testing. Adopted by the Standing Committee on Methods of Seed Testing of the Association of American Agricultural Colleges and Experiment Stations. (Corrected to November 7, 1906.) Pp. 24, figs. 11. (Circular No. 34, Revised, Office of Experiment Stations.)
- A Four Years' College Course in Agriculture. Pp. 36. (Circular No. 69, Office of Experiment Stations.)
- Fertilizers, by D. W. May, Special Agent in Charge. Pp. 16. (Circular No. 6, Porto Rico Agricultural Experiment Station.)
- Forest Planting in Eastern Nebraska, By Frank G. Miller, Forest Assistant, Forest Service. Pp. 32. (Circular No. 45, Forest Service.)
- Holding Force of Railroad Spikes in Wooden Ties. By W. Kendrick Hatt, Civil Engineer, Forest Service. Pp. 7. (Circular No. 46, Forest Service.)
- Strength of Packing Boxes of Various Woods. By W. Kendrick Hatt, Civil Engineer, Forest Service. Pp. 8, figs. 5. (Circular No. 47, Forest Service.)

- Kiln-drying Hardwood Lumber. By Frederick Dunlap, Forest Assistant, Forest Service. Pp. 19, figs. 4. (Circular No. 48, Forest Service.)
- Timber Used in the Mines of the United States in 1905. By R. S. Kellogg, Forest Assistant. Pp. 8. (Circular No. 49, Forest Service.)
- The Lumber Cut of the United States in 1905. By R. S. Kellogg, Forest Assistant, Forest Service. Pp. 23. (Circular No. 52, Forest Service.)
- Publications for Free Distribution. Revised to October 1, 1906. Pp. 48. (Circular No. 2, Division of Publications.)
- Publications for sale. Revised to October 1, 1906. Pp. 79. (Circular No. 3, Division of Publications.)
- Farmers' Bulletin Subject Index. Pp. 13. (Circular No. 4, Division of Publications.)
- Monthly List of Publications. November, 1906. Pp. 4. (Doc. No. 552, Division of Publications.)
- Public Roads of Nebraska; Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 4 (Circular No. 61, Office of Public Roads.)
- Crop Reporter. Vol. 8, No. 8, December, 1906. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 57-64.
- A three-column quarto publication devoted to agricultural statistics.
- Crop Reporter, Supplement to Vol. 8, No. 8, December, 1906. Pp. 65-72.

CIRCULARS—REPRINTS.

- Circular No. 21, Office of the Secretary. Rules and Regulations for the Enforcement of the Food and Drugs Act.
- Circular No. 64, Bureau of Animal Industry. A new Nematode (*Congylonema ingluvicola*) Parasitic in the Crop of Chickens.
- Circular No. 78, Bureau of Animal Industry. Glanders and Farcy.
- Order No. 137, Bureau of Animal Industry. Regulations Governing the Meat Inspection of the United States Department of Agriculture.
- Circular No. 28, Bureau of Chemistry. Provisional Methods for the Determination of Food Preservatives as Authorized by the Association of Official Agricultural Chemists, 1905.
- Circular No. 29, Bureau of Chemistry. Changes in Provisional Methods for the Analysis of Foods and Additions thereto, from 1902 to 1905.
- Circular No. 31, Bureau of Chemistry. General Results of the Investigations Showing the Effect of Salicylic Acid and Salicylates upon Digestion and Health.
- Circular No. 8, Second Series, Division of Entomology. The Imported Elm Leaf-beetle.
- Circular No. 17, Division of Entomology. The Peach-tree Borer.
- Circular No. 35, Second Series, Division of Entomology. House Flies.
- Circular No. 54, Division of Entomology. The Peach-tree Borer.
- Circular No. 46, revised, Office of Experiment Stations. The Functions and Uses of Food.
- Circular No. 47, revised, Office of Experiment Stations. The Card Index of Experiment Station Literature.
- Circular No. 60, Office of Experiment Stations. The Tools and Methods of Engineers of Timber Tests.
- Rural Communities. Forest Service.
- Circular No. 53, Forest Service.

FARMERS' BULLETINS—NEW.

- A Successful Hog and Seed-corn Farm. By W. J. Spillman, Agriculturist in Charge of Farm Management Investigations, Bureau of Plant Industry. Pp. 16, figs. 5. (Farmers' Bulletin No. 272.)

This bulletin explains the system of management of a farm of 100 acres devoted to raising hogs and growing seed corn. It gives the feeding value of the different crops grown, care and feeding of pigs and hogs, and the average yearly outlay and income.

- Experiment Station Work, XXXVIII. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32, figs. 4. (Farmers' Bulletin No. 273.)

Contents: Loss of nitrogen from soils—Manure as affected by food—Continuous corn culture—Pasturing wheat—Storage of sweet potatoes—Rotting of potatoes in storage—Hog cots—The disinfection of stables—The effect of horsetail weeds on horses—Treatment of calf scours—Preserving eggs—Wheat bran—Testing individual cows—Clean milk—Cleanliness in the dairy—Grading cream—Paraffin in dairying.

FARMERS' BULLETINS—REPRINTS.

- No. 22.—The Feeding of Farm Animals. Pp. 40.
- No. 33.—Peach Growing for Market. Pp. 24, figs. 21.
- No. 35.—Potato Culture. Pp. 24, figs. 2.

- No. 41.—Fowls: Care and Feeding. Pp. 24, figs. 4.
 No. 63.—Care of Milk on the Farm. Pp. 40, figs. 11.
 No. 64.—Ducks and Geese, Standard Varieties and Management. Revised. Pp. 56, figs. 32.
 No. 74.—Milk as Food. Pp. 40, charts 2.
 No. 83.—Tobacco Soils. Pp. 24, fig. 1.
 No. 93.—Sugar as Food. Pp. 32.
 No. 96.—Raising Sheep for Mutton. Pp. 48, figs. 18.
 No. 105.—Experiment Station Work, XII. Pp. 32, figs. 4.
 No. 106.—Breeds of Dairy Cattle. Pp. 48, figs. 21.
 No. 113.—The Apple and How to Grow It. Pp. 32, figs. 10.
 No. 121.—Beans, Peas, and Other Legumes as Food. Pp. 40, figs. 10.
 No. 126.—Practical Suggestions for Farm Buildings. Pp. 48, figs. 28.
 No. 128.—Eggs and Their Uses as Food. Revised. Pp. 40.
 No. 142.—Principles of Nutrition and Nutritive Value of Food. Revised. Pp. 48, figs. 2.
 No. 154.—The Home Fruit Garden: Preparation and Care. Pp. 16, figs. 6.
 No. 175.—Home Manufacture and Use of Unfermented Grape Juice. Pp. 16, figs. 8.
 No. 179.—Horseshoeing. Pp. 31, figs. 18.
 No. 194.—Alfalfa Seed. Pp. 16, figs. 8.
 No. 199.—Corn Growing. Pp. 32, figs. 23.
 No. 205.—Pig Management. Pp. 40, figs. 22.
 No. 208.—Varieties of Fruit Recommended for Planting. Pp. 48, fig. 1.
 No. 234.—The Guinea Fowl and Its Use as Food. Pp. 24, figs. 3.
 No. 236.—Incubation and Incubators. Pp. 32, figs. 11.
 No. 243.—Fungicides and their Use in Preventing Diseases of Fruits. Pp. 32, figs. 17.
 No. 265.—Game Laws for 1906. Pp. 56, figs. 4.

SEPARATES, YEARBOOKS, DEPARTMENT OF AGRICULTURE.

- Four Common Birds of the Farm and Garden. By Sylvester D. Judd, Assistant Ornithologist, U. S. Department of Agriculture. Pp. 405-418, figs. 4. (Sep. No. 37, Yearbook, 1895.)
 The Blue Jay and Its Food. By F. E. L. Beal, Assistant Biologist, U. S. Department of Agriculture. Pp. 197-206, figs. 3. (Sep. No. 66, Yearbook, 1896.)
 The Danger of Introducing Noxious Animals and Birds. By T. S. Palmer, Assistant Chief, Biological Survey. Pp. 87-110, pl. 1, figs. 6. (Sep. No. 132, Yearbook, 1898.)
 Some Examples of the Development of Knowledge Concerning Animal Diseases. By D. E. Salmon, Chief, Bureau of Animal Industry. Pp. iii, 93-134. (Sep. No. 165, Yearbook, 1899.)
 Smyrna Fig Culture in the United States. By L. O. Howard, Entomologist. Pp. iv, 79-106, pls. 8, figs. 7. (Sep. No. 196, Yearbook, 1900.)
 Diversified Farming in the Cotton Belt. I. South Atlantic Coast. By W. J. Spillman, in Charge of Farm Management Investigations. II. Alabama and Mississippi. By M. A. Crosby, in Charge of Diversification Farms in Alabama and Mississippi. III. Louisiana, Arkansas, and Northeastern Texas. By D. A. Brodie, in Charge of Diversification Farms in Louisiana, Arkansas, and Northeastern Texas. IV. Texas. By C. W. Warburton, in Charge of Diversification Farms in Texas. Pp. iv, 193-318, pls. 3. (Sep. No. 377, Yearbook, 1905.)
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PUBLICATIONS OF THE WEATHER BUREAU.

(For publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.)

Charts of the Weather Bureau—

National Monthly Weather Bulletin for November, 1906, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. (No. 30.)
 Snow and Ice Bulletin for Tuesdays, December 4, 11, 18, and for Wednesday, December 26. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)
 Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

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